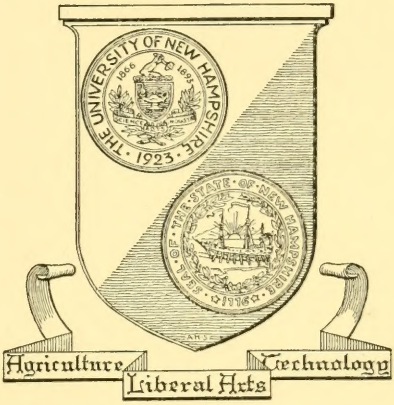
SHOUT
SHARE
IT

Bulletins 285-305 OK -RBS 4/10/42

#289 – 47th Ann. Rpt. – 1935
#296 – 48th Ann. Rpt. – 1936
#304 – 49th Ann. Rpt. – 1937

OK – RBS 4/24/42

Library of



The University of New Hampshire

EXPERIMENT STATION LIBRARY

Bulletin 285 August, 1935

THE UNIVERSITY OF NEW HAMPSHIRE
AGRICULTURAL EXPERIMENT STATION

Department of Agricultural Chemistry

Inspection of Commercial Feeding Stuffs 1935

Made for the

State Department of Agriculture

By T. O. Smith and H. A. Davis

The University of New Hampshire
Durham, N. H.

LIBRARY
University of New Hampshire
Agricultural Experiment Station
15022

~~RAS~~
~~630.72~~
~~N532~~
~~no. 285-305~~

BioSci
S
89
.E21
no. 285-
no. 305

UNH LIBRARY
3 4600 00618 4854

Inspection of Commercial Feeding Stuffs

Made for the

STATE DEPARTMENT OF AGRICULTURE

The inspection of commercial feeding stuffs reported in this bulletin was made under the direction of Honorable Andrew L. Felker, Commissioner of Agriculture. Mr. E. D. Sanborn, State Inspector, collected samples of 354 brands of feeding stuffs which were offered for sale in the State during the year ending June, 1935. The 354 samples represent brands of 102 manufacturers.

THE LAW

Ja6'41

The New Hampshire law, entitled an Act to Regulate the Sale of Concentrated Commercial Feeding Stuffs, requires every manufacturer or dealer who shall sell or offer for sale any concentrated commercial feeding stuff to furnish with each package a clearly printed statement certifying the net weight of the feed contained in the package, the brand name or trademark under which the feed is sold, the name and address of the manufacturer, the ingredients of which the feed is composed, and a chemical analysis stating the minimum percentage only of protein, fat and carbohydrates, and the maximum percentage only of crude fiber.

Manufacturers and jobbers who ship concentrated commercial feeding stuffs into the State are required to register each brand and to pay a license fee. Under the provisions of the law if the shipper fails to register, the dealer is responsible. Feeds manufactured in other states frequently pass through several middlemen before they reach the local distributor. Dealers who purchase feed for resale must assure themselves the brands they purchase are properly registered or assume that responsibility.

In order to secure greater uniformity in the labelling of

feeds and in the statement of ingredients, the Association of American Feed Control Officials has adopted definitions and standards. The Association has also approved twenty-one General Regulations which "should be adopted by state officials as far as the statutes will permit." There are no conflicts in these regulations with the New Hampshire Feeding Stuffs Law. All manufacturers and dealers are therefore expected to conform to the regulations of the Association in all matters not specifically mentioned in the law. Copies of these regulations and also the definitions and standards may be obtained from the Secretary, Association of American Feed Control Officials, College Park, Maryland.

The chief purpose of the administration of the Feeding Stuffs Law is to protect the consumer against the inferior products which would doubtless soon appear on the market if the trade were not under state control.

It must not be assumed by the purchaser of feeding stuffs that every brand which meets the manufacturer's guarantee is a high-grade feed. The Feeding Stuffs Law does not prevent the sale of a low-grade feed if it is properly licensed and tagged and is offered for sale in compliance with the law. It would not be in the public interest to legislate against the sale of the lower-grade by-products. They can be fed profitably if bought at a price adjusted to their feeding value. The law does prevent an inferior feed being offered for sale as a high-grade product.

The dealer who offers for sale a feeding stuff which has not been registered or which is not guaranteed in compliance with the law is probably indifferent to his customer's interests in other respects. He does not merit either the confidence or patronage of the consumer.

The purchaser's co-operation in refusing to buy a feed which does not conform to the law in every respect will not only help in the enforcement of the law but will at the same time afford himself its protection. The State official charged with the enforcement of the feeding stuffs law is the Commissioner of Agriculture. All inquiries concerning the law and all matters relative to the registration of brands should be addressed to his office in Concord.

CLASSIFICATION

In classifying the feeding stuffs here reported, the class name under which they were offered to the consumer has been used. The classes are arranged alphabetically. Table I shows the number of brands in each class, the page on which the analysis may be found, the average price per 100 pounds, the average per cent of protein, the number of pounds of protein per $1.00, the number deficient by one-half per cent or more of protein, the average per cent fat, the number of pounds of fat per $1.00, and the number deficient by one-fourth per cent or more of fat.

The columns pounds of protein per $1.00 and pounds of fat per $1.00 are included for the convenience of consumers interested in the comparative cost of protein and fat in the different concentrates. They are not corrected for the varying amounts of the other constituents.

TABLE I

Class	Analyses on page	Number in class	Average price per 100 pounds	Average per cent protein	Pounds of protein per $1.00	Number deficient ½ per cent protein	Average per cent fat	Pounds of fat per $1.00	Number deficient ¼ per cent fat
Alfalfa Meal	9	1	2.10	14.01	6.7	0	1.78	0.8	0
Brewers' Grains	9	1	2.10	24.34	11.6	0	6.52	3.1	0
Calf Meal	9	3	2.37	24.93	10.5	0	4.41	1.9	0
36% Cottonseed Meal	9	3	2.43	36.89	15.2	1	7.31	3.1	0
41% Cottonseed Meal	10	5	2.30	41.27	17.9	1	6.20	2.7	0
43% Cottonseed Meal	10	1	2.65	42.64	16.1	0	6.32	2.4	0
Dairy Feed	11	108	2.19	21.45	9.8	6	4.22	1.9	20
Distillers' Grains	25	2	1.90	23.16	12.2	0	8.83	4.6	0
Fish Meal	25	2	3.23	58.69	18.2	1	10.98	3.4	0
Gluten Feed	26	6	2.18	27.40	12.6	0	2.64	1.2	0
Gluten Meal	26	1	2.60	43.08	16.6	0	1.96	0.8	0
Hominy Feed	27	3	2.23	11.64	5.2	0	6.74	3.0	0
Kelp	27	1	4.00	4.95	1.2	0	0.44	0.1	0
Linseed Meal	27	3	2.43	35.15	14.5	1	6.19	2.5	0
Meat Scraps	27	6	2.18	47.30	21.7	0	10.26	4.7	0
Oat Hulls	28	4	1.31	4.20	3.2	0	1.21	0.9	3
Oat Meal	29	2	2.95	16.42	5.6	0	5.72	1.9	0
Poultry Feed	29	115	2.70	19.28	7.1	0	5.29	2.0	4
Skimmed Milk	45	5	5.32	34.00	6.4	0	0.76	0.1	0
Soybean Oil Meal	45	2	2.65	42.16	15.9	0	5.47	2.1	0
Stock Feed	46	17	2.14	10.47	4.9	0	4.58	2.1	1
Wheat Bran	47	24	1.85	17.16	9.3	0	4.97	2.7	0
Wheat Middlings	50	15	1.99	18.02	9.1	0	4.80	2.4	1
Wheat Mixed Feed	52	17	2.07	17.70	8.6	0	4.44	2.1	1
Wheat Red Dog	53	3	2.20	19.09	8.7	0	4.83	2.2	0
Wheat Shorts	54	4	1.81	18.07	9.4	0	5.87	3.2	0
		354				10			30

NUMBER OF SAMPLES FAILING TO COMPLY WITH THE LAW

One hundred fifty-two of the 354 brands analyzed failed to comply with the law in every respect, violating it on 187 counts. Nearly all of these violations, however, are negligible if measured in terms of the cost to the purchaser.

Only five brands were found deficient more than one per cent in the most valuable constituent, protein. The greatest protein deficiency was 3.22 per cent. Five brands were deficient more than one-half per cent but less than one per cent. Nine brands were deficient less than one-half per cent. The 19 brands found deficient in protein is equivalent to 5.4 per cent of the brands analyzed.

Forty-five brands or 12.7 per cent were deficient in fat; 15 of these were deficient less than one-fourth per cent. The greatest deficiency in fat was 1.29 per cent.

Thirty-five brands contained an excessive amount of crude fibre. Seventy brands were deficient in carbohydrates. In the analysis of a feeding stuff the percentage of carbohydrates is usually determined indirectly. It is found by subtracting the sum of the percentages of protein, fat, moisture and ash from 100. It is obvious that an excess of protein and fat over the manufacturer's guarantee decreases the percentage of carbohydrates found. Many of this year's carbohydrates deficiencies are due to the protein or fat or both exceeding the guarantee. Nineteen brands were offered for sale without a carbohydrates guarantee. Some states do not require the carbohydrates guarantee. It is probable many of the 19 brands found offered for sale without the carbohydrates guarantee were not shipped into the state by the manufacturer but represent only small lots shipped in by jobbers in neighboring states.

In the tabulation of the analytical data deficiencies of one-half per cent or more of protein and of one-fourth per cent or more of fat are shown in bold-faced type.

In Table II is shown a summary of deficiency figures over a ten year period.

TABLE II

Year	Per cent Deficient in Protein	Per cent Deficient ½ % or more in Protein	Per cent Deficient in Fat	Per cent Deficient ¼ % or more in Fat	Per cent High in Crude Fiber	Per cent Low in Carbo-hydrates	Per cent with no Carbo-hydrates Guarantee
1926	24.0	16.0	14.0	10.0	6.0	6.5	22.5
1927	24.7	16.4	19.4	13.6	5.9	17.9	14.4
1928	29.8	20.7	13.6	9.3	7.9	10.6	11.7
1929	29.7	20.2	12.1	9.3	6.5	10.3	9.5
1930	17.9	13.1	12.0	8.0	3.9	16.5	16.2
1931	9.0	7.2	15.6	9.7	5.3	15.6	11.2
1932	3.2	1.4	13.1	8.1	2.8	15.5	16.9
1933	4.9	3.6	17.3	9.8	3.6	18.1	5.9
1934	6.4	3.4	11.0	7.1	9.8	16.4	6.6
1935	5.4	3.0	12.7	8.5	9.9	19.8	5.4

REQUESTS FOR THE ANALYSIS OF FEEDING STUFFS BY INDIVIDUALS

Under the Feeding Stuffs Law the Agricultural Experiment Station is charged only with the analysis of samples of feeding stuffs collected by the State Inspector under the direction of the Commissioner of Agriculture. It does, however, each year analyze a considerable number of samples drawn by individuals representing stock purchased by them for their own use. The object of the purchaser who asks to have the sample analyzed is usually to satisfy himself whether the feed meets its guarantee and if it does not, to obtain evidence upon which to base a claim for shortage.

The Station can assume no responsibility for the sampling of these unofficial samples but can only attest the accuracy of the analysis of the sample as submitted. It is practically impossible to secure a representative sample of a feeding stuff composed of several ingredients varying widely in composition without the aid of a sampling tube for drawing the sample and proper equipment for mixing it. A feed may contain as one of its ingredients gluten meal averaging 40 per cent protein, and as another ingredient oat feed averaging five per cent protein. These materials are so different in physical condition that the shaking in transit tends to separate them even though they may have been perfectly mixed by the manufacturer before bagging. It is apparent that an accurate sample of a ton of this feed can only be had by drawing a core from several bags. The official method requires ten. Since a representative sample is as essential as an accurate analysis in judging the value of a shipment of feed it is evident that a satisfactory adjustment can seldom be effected on the basis of an unofficial sample.

Notwithstanding the objections which may be raised to the analysis of samples taken without proper sampling equipment, the Station is disposed to continue this work as long as there is evidence that it constitutes a useful service. The samples so submitted should be drawn from at least ten bags in a manner which will insure that the small lot sent for analysis is as accurately representative as possible of the

larger lot from which it is taken. Because of the cost of labor and materials an analysis is not usually warranted on a sample drawn from less than a one ton lot of feed.

A one pound sample is sufficient for the analysis. It should be sent in a glass jar or tin box to prevent the loss of fine particles and a change in the moisture content. In order that the Department may have a satisfactory record of the sample analyzed and may know whether or not the manufacturer and the dealer are complying with the requirements of the law, the following information should be submitted concerning each sample.

Brand .....

Manufacturer .....

Address .....

Guarantee:

Protein .....

Fat .....

Carbohydrates .....

Moisture .....

Ash .....

Crude Fiber .....

Ingredients .....

.....

.....

Dealer .....

Address .....

Number of bags in lot .....

Number of bags sampled .....

Price per 100 pounds .....

Your name .....

Your address .....

Your reason for requesting analysis .....

.....

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
ALFALFA MEAL							
Alfalfa Meal	G.* 13.00	1.00	40.00	....	....	33.00	
A. B. Caple Co.	F.* 14.01	1.78	65.18	8.85	10.18	....	
Toledo, Ohio							
BREWERS' DRIED GRAINS							
Bull Brand Dried Brewers' Grains	G. 24.00	6.00	....	....	....	17.00	
Farmers' Feed Co.	F. 24.34	6.52	59.76	3.26	6.12	....	
Buffalo, N. Y.							
CALF MEAL							
Wayne Calf Meal	G. 24.00	4.00	52.00	....	....	7.00	Skimmed milk, cottonseed meal, corn gluten meal, cocoanut oil meal, wheat middlings, wheat bran, wheat red dog flour, soybean oil meal, limestone, bone meal, salt, cane molasses.
Allied Mills	F. 25.61	4.63	51.73	7.91	10.12	5.80	
Chicago, Ill.							
Larro Calf Meal	G. 23.00	4.00	54.00	....	....	4.00	Oat meal, skimmed milk, corn meal, wheat middlings, linseed meal, blood flour, limestone, salt, cod liver oil.
Larrowe Milling Co.	F. 24.65	4.43	55.21	6.28	9.43	3.73	
Detroit, Mich.							
Purina Calf Starting Chow	G. 23.00	3.20	49.00	....	....	7.00	Skimmed milk, linseed flour, soybean oil meal, fish meal, blood flour, alfalfa leaf meal, oats, wheat middlings, corn meal, molasses, calcium carbonate, iodized salt.
Ralston Purina Co.	F. 24.52	4.18	53.90	7.25	10.15	3.88	
St. Louis, Mo.							
36% COTTONSEED MEAL							
Cottonseed Meal, Paramount Brand	G. 36.00	4.50	41.00	....	....	16.00	Made from Chinese cottonseed.
Ashcraft-Wilkinson Co.	F. 39.75	9.67	35.58	6.49	8.51	8.59	
Atlanta, Ga.							

*These letters indicate respectively guaranteed and found.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Paramount Brand Cottonseed Meal	G.	36.00	5.00	27.00	....	....	14.00	
Ashcraft-Wilkinson Co.	F.	**34.79**	6.93	44.31	6.41	7.56	13.72	
Atlanta, Ga.								
Lovit Brand 36% Cottonseed Meal.....	G.	36.00	4.50	44.00	....	....	16.00	
L. B. Lovit & Co.	F.	36.12	5.34	43.76	6.59	8.19	....	
Memphis, Tenn.								
41% COTTONSEED MEAL								
Empire 41% Cottonseed Meal	G.	41.00	3.50	38.00	....	....	13.00	
E. T. Allen Co.	F.	**40.33**	5.99	40.97	6.08	6.63	....	
Atlanta, Ga.								
Miss Cairo Brand Cottonseed Meal.....	G.	41.00	6.00	26.00	....	....	10.00	
Cairo Meal & Cake Co.	F.	41.00	6.05	38.73	7.02	7.20	....	
Cairo, Ill.								
Cow-Eta Brand 41% Cottonseed Meal....	G.	41.00	5.00	48.00	....	....	13.00	
Ashcraft-Wilkinson Co.	F.	41.11	6.78	49.46	6.13	6.52	....	
Atlanta, Ga.								
Dixie Brand Cottonseed Meal	G.	41.00	5.00	26.00	....	....	12.00	
Humphreys-Godwin Co.	F.	41.46	5.93	38.85	5.84	7.92	....	
Memphis, Tenn.								
White Mule Brand Cottonseed Meal.....	G.	41.00	6.00	26.00	....	....	10.00	
Marianna Sales Co.	F.	42.47	6.23	35.53	7.52	8.25	....	
Memphis, Tenn.								
43% COTTONSEED MEAL								
Lovit Brand 43% Cottonseed Meal	G.	43.00	6.00	36.00	....	....	10.00	
L. B. Lovitt & Co.	F.	42.64	6.32	37.36	7.17	6.51	9.63	
Memphis, Tenn.								

DAIRY FEED								
Empire 24% Dairy Ration	G.	24.00	3.00	50.00	....	....	12.00	Corn distillers' grains, brewers' grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed meal, corn meal, wheat bran, grain screenings, clipped oat by-products, cane molasses, limestone, salt.
Allied Mills	F.	25.17	4.77	53.98	7.03	9.05	9.83	
Chicago, Ill.								
Empire 20% Dairy Ration	G.	20.00	3.00	52.00	....	....	12.00	Corn distillers' grains, brewers' grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed meal, corn meal, wheat bran, grain screenings, clipped oat by-products, cane molasses, limestone, salt.
Allied Mills	F.	21.93	4.52	56.79	8.28	8.48	11.62	
Chicago, Ill.								
Empire 16½% Dairy Ration	G.	16.50	3.00	57.00	....	....	12.00	Corn distillers' grains, brewers' grains, soybean oil meal, corn gluten feed, corn gluten meal, cottonseed meal, corn meal, wheat bran, grain screenings, clipped oat by-products, cane molasses, limestone, salt.
Allied Mills	F.	19.17	4.81	60.62	7.01	8.39	10.96	
Chicago, Ill.								
June Pasture								
Allied Mills	G.	10.00	0.50	66.00	....	....	21.00	Alfalfa meal, beet molasses.
Chicago, Ill.	F.	12.82	0.94	65.27	10.46	10.51	20.29	
Wayne Amco 24% Dairy Ration	G.	24.00	3.50	49.00	....	....	9.00	Cottonseed meal, corn gluten meal, corn distillers' grains, brewers' grains, corn gluten feed, linseed meal, soybean oil meal, oats, corn meal, wheat bran, cane molasses, bone meal, limestone, salt.
Allied Mills	F.	24.12	4.94	53.08	8.55	9.31	8.32	
Chicago, Ill.								
Wayne Amco 20% Dairy Ration	G.	20.00	3.50	54.00	....	....	9.00	Cottonseed meal, brewers' grains, corn distillers' grains, oats, corn gluten feed, corn meal, soybean oil meal, corn gluten meal, linseed meal, wheat bran, cane molasses, bone meal, limestone, salt.
Allied Mills	F.	21.80	4.84	56.10	7.42	9.84	8.49	
Chicago, Ill.								
Wayne Amco 16% Dairy Ration	G.	16.00	3.50	58.00	....	....	8.00	Corn distillers' grains, corn gluten feed, linseed meal, corn meal, soybean oil meal, oats, wheat bran, cane molasses, bone meal, limestone, salt.
Allied Mills	F.	16.55	4.29	62.63	6.51	10.02	7.54	
Chicago, Ill.								
Bailey's 16% Dairy Ration	G.	16.00	5.00	60.00	....	....	9.00	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, bone meal, calcium carbonate, molasses, salt.
E. W. Bailey & Co.	F.	17.29	5.00	60.97	7.20	9.54	7.98	
Montpelier, Vt.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hy-drates	Ash	Moist-ure	Crude Fiber	
Capital Dairy Ration Sweetened E. W. Bailey & Co. Montpelier, Vt.	G. 24.00 F. 24.39	4.50 4.34	55.00 53.18	.... 7.43	.... 10.36	9.00 6.73	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, bone meal, calcium carbonate, salt, molasses.
Favorite Dairy Ration E. W. Bailey & Co. Montpelier, Vt.	G. 20.00 F. 21.02	4.00 4.56	55.00 57.71	.... 7.07	.... 9.64	7.50 7.32	Hominy feed, cottonseed meal, linseed meal, corn meal, oats, wheat bran, corn gluten feed, wheat middlings, bone meal, calcium carbonate, salt, molasses.
Our 20% Special Ration E. W. Bailey & Co. Montpelier, Vt.	G. 20.00 F. 21.80	3.50 3.52	55.00 57.54	.... 7.56	.... 9.58	9.00 8.62	Gluten feed, wheat middlings, oat middlings, oat hulls, oat shorts, corn meal, wheat bran, cottonseed meal, molasses, salt, bone meal, calcium carbonate.
Barco 24% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. 24.00 F. 25.39	5.00 **4.49**	55.00 53.66	.... 7.79	.... 8.67	9.00 7.90	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, bone meal, calcium carbonate, salt.
Barco 24% Dairy Ration Sweetened G. N. Bartemus Co. Concord, N. H.	G. 24.00 F. 24.87	5.00 **4.44**	55.00 54.30	.... 7.59	.... 8.80	9.00 8.29	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, corn meal, bone meal, calcium carbonate, salt, molasses.
Barco 20% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. 20.00 F. 21.58	4.50 4.29	55.00 56.82	.... 7.56	.... 9.75	7.50 8.02	Hominy feed, cottonseed meal, linseed meal, corn meal, oats, wheat bran, corn gluten feed, wheat middlings, bone meal, calcium carbonate, salt.
Barco 16% Dairy Ration G. N. Bartemus Co. Concord, N. H.	G. 16.00 F. 16.72	5.00 **4.70**	60.00 61.86	.... 6.54	.... 10.18	9.00 7.72	Corn gluten feed, linseed meal, hominy feed, cottonseed meal, oats, wheat bran, bone meal, calcium carbonate, salt.
Concord 20% Sweetened Ration G. N. Bartemus Co. Concord, N. H.	G. 20.00 F. 21.93	3.00 3.84	45.00 56.69	.... 7.62	.... 9.92	9.00 8.55	Corn gluten feed, wheat bran, corn gluten meal, hominy, cottonseed meal, brewers' grains, linseed meal, molasses, bone meal, limestone, salt.

H. L. Webster & Sons—Full O'Milk Ration G. N. Bartemus Co. Concord, N. H.	G. F.	20.00 22.33	4.50 5.01	53.00 56.56	.... 6.39	.... 9.71	8.00 7.21	Wheat bran, hominy feed, oats, corn gluten feed, cottonseed meal, soybean oil meal, linseed meal, distillers' grains, molasses, dicalcium phosphate, salt.
Special 20% Dairy Sweetened G. N. Bartemus Co. Concord, N. H.	G. F	20.00 21.71	4.50 **3.67**	48.00 56.91	.... 7.72	.... 9.99	10.00 8.09	Corn gluten feed, wheat middlings, oat feed, wheat bran, cottonseed meal, molasses, salt, bone meal, limestone.
Auburn Dairy Feed Beacon Milling, Co. Cayuga, N. Y.	G. F.	20.00 21.10	4.00 **3.65**	.... 57.32	.... 7.52	.... 10.41	10.00 7.84	Corn gluten feed, linseed meal, soybean oil meal, oats, corn meal, grain screenings, cottonseed meal, wheat bran, barley, brewers' grains, corn distillers' grains, molasses, salt, calcium carbonate, calcium phosphate.
Beacon "20" Beacon Milling Co. Cayuga, N. Y.	G. F.	20.00 21.58	4.50 5.32	50.00 57.36	.... 6.00	.... 9.74	9.00 8.03	Linseed meal, cottonseed meal, soybean oil meal, corn gluten feed, corn gluten meal, corn meal, wheat bran, mill run screenings, corn distillers' grains, oats, barley, salt, calcium phosphate, calcium carbonate.
Beacon Dairy Ration Beacon Milling Co. Cayuga, N. Y.	G. F.	24.00 25.22	4.50 4.50	49.00 54.05	.... 7.49	.... 8.74	9.00 8.88	Linseed meal, soybean oil meal, corn gluten feed, corn distillers' grains, barley, corn gluten meal, hominy feed, corn meal, cottonseed meal, alfalfa meal, wheat bran, wheat middlings, mill run screenings, calcium carbonate, calcium phosphate, salt.
Bidwell 24% Dairy Ration Black Rock Milling Corp. Buffalo, N. Y.	G. F.	24.00 **20.78**	4.00 **3.67**	50.00 56.73	.... 9.51	.... 9.31	11.00 8.09	Wheat bran, linseed meal, barley, cottonseed meal, corn gluten feed, grain screenings, malt sprouts, corn gluten meal, molasses, calcium carbonate, salt.
Bidwell 20% Dairy Ration Black Rock Milling Corp. Buffalo, N. Y.	G. F.	20.00 19.85	4.00 4.95	50.00 55.47	.... 10.38	.... 9.35	11.00 9.86	Wheat bran, linseed meal, malt sprouts, gluten feed, gluten meal, barley, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
Corson's No. 1 Dairy Ration Freeman Corson Rochester, N. H.	G. F.	20.00 20.35	4.50 **4.08**	60.00 58.14	.... 8.19	.... 9.24	10.00 10.34	Wheat bran, corn gluten feed, peanut meal, linseed meal, brewers' grains, molasses, cornfeed meal, cottonseed meal, salt, calcium carbonate.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hy-drates	Ash	Moist-ure	Crude Fiber	
Coweco 20% Sunrise Dairy Ration	G. 20.00	3.50	50.00	....	....	10.00	Wheat bran, wheat middlings, brewers' grains, corn gluten feed, distillers' grains, grain screenings, soybean meal, cocoanut oil meal, cottonseed meal, molasses, calcium carbonate, salt.
E. A. Cowee Co.	F. **17.83**	5.40	60.07	6.50	10.20	8.05	
Fitchburg, Mass.							
Dunbar's Dairy Ration	G. 22.00	4.50	48.00	....	....	10.00	Wheat bran, linseed meal, cottonseed meal, brewers' grains, oats, hominy, gluten meal, bone meal, charcoal, calcium carbonate, salt.
E. A. Cowee Co.	F. 25.52	5.11	53.05	7.50	8.82	8.27	
Fitchburg, Mass.							
Champion Dairy Ration	G. 24.00	4.75	50.00	....	....	8.50	Wheat bran, cottonseed meal, gluten feed, gluten meal, linseed meal, oats, corn meal, brewers' grains, distillers' grains, wheat middlings, salt, bone meal.
G. B. Currier Co.	F. 23.61	5.10	54.23	7.06	8.00	8.46	
Colebrook, N. H.							
Delco Sweet 20% Dairy Feed	G. 20.00	4.50	50.00	....	....	10.00	Cane molasses, linseed meal, corn gluten feed, corn gluten meal, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, hominy feed, oats, barley, calcium carbonate, salt.
Delaware Mills	F. 21.67	4.28	57.92	6.55	9.58	10.25	
Deposit, N. Y.							
Indian Sweet 20% Dairy Feed	G. 20.00	4.00	50.00	....	....	12.00	Cane molasses, linseed meal, corn gluten feed, cottonseed meal, soybean oil meal, peanut oil meal, wheat bran, wheat middlings, corn meal, oat feed, buckwheat, calcium carbonate, salt.
Delaware Mills	F. 22.02	4.45	56.60	7.65	9.28	11.61	
Deposit, N. Y.							
D & G Big 4 Feed	G. 11.00	2.50	62.00	....	....	16.00	Alfalfa meal, wheat bran, brewers' grains, beet pulp, molasses, salt.
Dietrich & Gambrill	F. 14.94	2.42	61.94	9.68	11.02	11.64	
Frederick, Md.							
D & G Frederick Dairy Feed	G. 24.00	4.00	54.00	....	....	12.00	Cottonseed meal, peanut meal, gluten feed, brewers' grains, wheat bran, corn feed meal, grain screenings, clipped oat by-products, oat middlings, oat shorts, oat hulls, molasses, bone meal, calcium carbonate, salt.
Dietrich & Gambrill	F. 26.36	4.87	52.49	7.51	8.77	9.16	
Frederick, Md.							

Gambrill's A1 Dairy Feed Dietrich & Gambrill Frederick, Md.	G. F.	24.00 25.96	4.60 5.20	51.00 51.88	.... 7.62	.... 9.34	9.00 8.92	Gluten feed, cottonseed meal, linseed meal, peanut meal, brewers' grains, wheat bran, wheat middlings, corn feed meal, oats, molasses, calcium carbonate, bone meal, salt.
Gambrill's 16% Dairy Feed Dietrich & Gambrill Frederick, Md.	G. F.	16.00 17.95	3.50 4.08	57.00 59.41	.... 8.70	.... 9.86	12.00 12.00	Cottonseed meal, peanut meal, corn gluten feed, corn feed meal, grain screenings, oat middlings, oat hulls, molasses, calcium carbonate, salt.
High Protein Dairy Feed Dietrich & Gambrill Frederick, Md.	G. F.	32.00 33.54	5.00 4.82	.... 44.86	.... 8.35	.... 8.43	9.00 8.37	Cottonseed meal, linseed meal, peanut meal, soybean meal, corn gluten feed, wheat bran, brewers' grains, cane molasses, bone meal, calcium carbonate, salt.
Pen Mar Dairy Feed Dietrich & Gambrill Frederick, Md.	G. F.	20.00 22.42	4.00 3.90	56.00 55.62	.... 7.74	.... 10.32	9.00 7.83	Corn gluten feed, cottonseed meal, linseed meal, peanut meal, brewers' grains, oats, corn feed meal, wheat bran, wheat middlings, molasses, calcium carbonate, bone meal, salt.
Eastern States Fitting Ration Eastern States Farmers' Exchange Springfield, Mass.	G. F.	12.00 13.75	3.50 3.61	60.00 66.44	.... 5.15	.... 11.05	7.00 5.37	Wheat bran, mill run wheat screenings, corn meal, oats, hominy feed, cane molasses, linseed meal, soybean oil meal, dicalcium phosphate, salt.
Eastern States Fulpail Dairy Ration Eastern States Farmers' Exchange Springfield, Mass.	G. F.	20.00 21.14	4.50 4.69	53.00 58.46	.... 5.90	.... 9.81	8.00 7.64	Hominy feed, wheat bran, mill run wheat screenings, distillers' corn dried grains, corn gluten feed, cottonseed meal, soybean oil meal, cane molasses, oats, dicalcium phosphate, salt.
Eastern States Highland 20 Dairy Ration. Eastern States Farmers' Exchange Springfield, Mass.	G. F.	20.00 22.28	4.00 4.89	53.00 57.25	.... 6.36	.... 9.22	8.00 8.00	Corn gluten feed, hominy feed, distillers' corn dried grains, wheat bran, mill run wheat screenings, cane molasses, cottonseed meal, calcium carbonate, salt.
Eastern States Highland 16 Rairy Ration.. Eastern States Farmers' Exchange Springfield, Mass.	G. F.	16.00 17.42	4.00 4.45	57.00 62.89	.... 6.23	.... 9.01	9.00 9.00	Hominy feed, corn gluten feed, distillers' corn dried grains, wheat bran, mill run wheat screenings, cane molasses, oat hulls, oat shorts, oat middlings, cottonseed meal, calcium carbonate, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Eastern States Highland 12	G.	12.00	3.50	61.00	....	....	10.50	Wheat bran, mill run wheat screenings, hominy feed, oat shorts, oat middlings, oat hulls, corn meal, cane molasses, soybean oil meal, distillers' corn dried grains, brewers' grains, calcium carbonate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	13.75	3.82	66.16	6.29	9.98	10.46	
Eastern States Milkmore Dairy Ration	G.	24.00	4.50	49.00	....	....	8.00	Cottonseed meal, corn gluten feed, wheat bran, mill run wheat screenings, distillers' corn dried grains, soybean oil meal, hominy feed, cane molasses, oats, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	25.48	1.66	53.92	7.17	8.77	7.35	
Eastern States Sixteen Dairy Ration	G.	16.00	4.00	56.00	....	....	8.00	Hominy feed, what bran, mill run wheat screenings, distillers' corn dried grains, corn gluten feed, cane molasses, oats, cottonseed meal, soybean oil meal, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	17.47	4.34	63.22	5.28	9.69	7.81	
Elmore Milk Grains Junior	G.	20.00	4.50	55.00	....	....	10.00	Corn distillers' grains, wheat bran, linseed meal, hominy feed, barley, malt sprouts, corn gluten feed, cottonseed meal, brewers' grains, calcium carbonate, salt.
Elmore Milling Co. Oneonta, N. Y.	F.	23.47	4.92	57.35	4.74	9.52	8.92	
Granger 24% Dairy Ration	G.	24.00	4.00	....	....	....	10.00	Wheat bran, wheat middlings, cottonseed meal, barley, soybean meal, corn gluten feed, cane molasses, wheat screenings, calcium carbonate, salt, oats, brewers' grains.
Elmore Milling Co. Oneonta, N. Y.	F.	23.35	4.39	56.41	6.71	9.14	13.26	
Granger 20% Dairy Ration	G.	20.00	4.00	55.00	....	....	11.00	Wheat bran, wheat middlings, barley, cottonseed meal, corn gluten feed, corn meal, soybean meal, cane molasses, wheat screenings, calcium carbonate, salt, oats, copra oil meal, brewers' grains.
Elmore Milling Co. Oneonta, N. Y.	F.	20.75	4.06	58.53	7.20	9.46	10.74	

Eshelman Conestoga 20 Dairy Feed John W. Eshelman & Sons Lancaster, Pa.	G. F.	20.00 21.98	4.00 4.12	55.00 56.09	.... 8.74	.... 9.07	11.00 9.66	Cottonseed meal, wheat bran, cane molasses, corn gluten feed, brewers' grains, corn distillers' grains, soybean oil meal, linseed meal, grain screenings, bone meal, calcium carbonate, salt.
Eshelman Pennsy 16 Dairy Feed John W. Eshelman & Sons Lancaster, Pa.	G. F.	16.00 17.91	3.00 3.39	55.00 60.13	.... 8.93	.... 9.34	11.00 11.00	Wheat bran, cottonseed meal, cane molasses, corn gluten feed, brewers' grains, linseed meal, soybean oil meal, grain screenings, oat middlings, oat hulls, oat shorts, bone meal, calcium carbonate, salt.
C Dairy Farm Service Stores Fitchburg, Mass.	G. F.	20.00 22.20	4.00 4.12	53.00 56.48	.... 7.32	.... 9.88	9.00 7.18	Corn meal, wheat bran, oats, gluten feed, gluten meal, linseed meal, cottonseed meal, soybean meal, calcium carbonate, salt.
North Star 20% Dairy Farm Service Stores Fitchburg, Mass.	G. F.	20.00 22.20	4.50 **3.94**	59.00 56.40	.... 8.23	.... 9.23	12.00 10.01	Corn meal, gluten feed, gluten meal, wheat bran, linseed meal, cottonseed meal, soybean meal, brewers' grains, beet pulp, grain screenings, bone meal, calcium carbonate, salt, molasses.
North Star 16% Dairy Feed Farm Service Stores Fitchburg, Mass.	G. F.	16.00 18.95	3.00 3.63	55.00 59.09	.... 8.45	.... 9.88	11.00 10.94	Corn meal, soybean meal, brewers' grains, wheat bran, corn gluten feed, cottonseed meal, linseed meal, molasses, calcium carbonate, bone meal, salt, oat feed, wheat middlings, wheat red dog flour, grain screenings.
Flory's 24% Dairy Feed Flory Milling Co. Bangor, Pa.	G. F.	24.00 26.28	4.50 **3.98**	45.00 52.37	.... 8.65	.... 8.72	11.00 10.17	Cottonseed meal, linseed meal, cocoanut oil meal, soybean meal, corn gluten feed, corn gluten meal, malt grains, alfalfa meal, wheat bran, wheat middlings, molasses, calcium carbonate, calcium phosphate, salt, buckwheat middlings.
Record Dairy Feed Flory Milling Co. Bangor, Pa.	G. F.	20.00 20.66	4.50 **3.21**	48.00 58.84	.... 7.45	.... 9.84	9.00 9.57	Linseed meal, cottonseed meal, soybean meal, corn gluten feed, buckwheat middlings, wheat middlings, wheat bran, malt grains, oats, molasses, alfalfa meal, cocoanut oil meal, calcium carbonate, calcium phosphate, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Our Mix Dairy Feed Grafton County Feed Co. North Haverhill, N. H.	G. 22.00 F. 22.90	4.50 4.69	53.00 55.84	.... 7.40	.... 9.17	8.00 7.36	Wheat bran, corn gluten feed, cottonseed meal, brewers' grains, hominy feed, linseed meal, soybean meal, wheat middlings, bone meal, calcium carbonate, salt.
Economy 20% Sweetened Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 21.49	3.00 3.77	50.00 57.31	.... 8.18	.... 9.25	12.00 11.06	Cottonseed meal, corn gluten meal, corn gluten feed, wheat bran, oat middlings, oat shorts, oat hulls, grain screenings, cane molasses, bone meal, calcium carbonate, salt, soybean oil meal.
Grandin's Milk Maker D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 22.55	5.00 5.20	50.00 54.90	.... 7.79	.... 9.56	12.00 9.94	Linseed meal, cottonseed meal, cocoanut oil meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn feed meal, hominy feed, beet pulp, bone meal, calcium carbonate, salt.
Grandin's Sweetened 20% Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 21.19	4.00 4.61	50.00 56.01	.... 7.34	.... 10.85	10.00 8.12	Linseed meal, cottonseed meal, corn gluten feed, wheat bran, wheat middlings, corn feed meal, mill run screenings, hominy feed, cane molasses, bone meal, calcium carbonate, salt.
Grandin's 12 Twin Six 12 Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 22.00 F. 24.21	5.00 5.51	50.00 53.18	.... 7.52	.... 9.58	12.00 10.10	Linseed meal, cottonseed meal, cocoanut oil meal, corn gluten feed, wheat bran, wheat middlings, mill run screenings, corn feed meal, hominy feed, alfalfa meal, bone meal, calcium carbonate, salt.
M-S 20% Sweet Dairy Feed D. H. Grandin Milling Co. Jamestown, N. Y.	G. 20.00 F. 21.71	4.00 3.88	50.00 55.94	.... 8.71	.... 9.76	12.00 10.47	Cottonseed meal, linseed meal, corn gluten feed, wheat bran, wheat middlings, corn feed meal, hominy feed, grain screenings, oat middlings, oat hulls, oat shorts, cane molasses, bone meal, calcium carbonate, salt, soybean oil meal.

Daily Milk Dairy Feed Great Atlantic & Pacific Tea Co. New York, N. Y.	G. F.	16.00 19.13	4.00 **3.56**	58.00 58.52	.... 9.99	.... 8.80	12.00 9.08	Wheat bran, cottonseed meal, wheat middlings, mill run screenings, molasses, linseed meal, corn gluten meal, grain screenings, clipped oat by-products, calcium carbonate, salt, corn gluten feed, soybean oil meal, malt sprouts.
Milky Way 24% Dairy Feed Great Atlantic & Pacific Tea Co. New York, N. Y.	G. F.	24.00 **22.83**	4.50 **3.44**	50.00 57.36	.... 8.16	.... 8.21	9.00 8.19	Corn feed meal, brewers' grains, wheat bran, cottonseed meal, wheat middlings, oats, barley, molasses, linseed meal, corn gluten meal, calcium carbonate, salt.
Milky Way Dairy Feed 20% Great Atlantic & Pacific Tea Co. New York, N. Y.	G. F.	20.00 23.21	3.50 **2.64**	56.00 57.18	.... 9.21	.... 7.76	9.00 8.71	Corn feed meal, wheat bran, cottonseed meal, wheat middlings, mill run screenings, oats, barley, molasses, soybean oil meal, linseed meal, corn gluten meal, calcium carbonate, salt, corn gluten feed, malt sprouts.
Bemis 20% Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G F.	20.00 21.23	4.00 5.53	55.00 55.25	.... 8.15	.... 9.84	9.00 8.66	Wheat bran, oats, corn meal, linseed meal, corn gluten feed, cottonseed meal, salt.
Chase Ration E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	17.00 19.48	4.00 4.06	60.00 59.17	.... 7.47	.... 9.82	8.00 7.62	Corn meal, wheat bran, corn gluten feed, oats, linseed meal, cottonseed meal, salt.
Money Maker Sweetened Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	20.00 22.42	3.50 4.61	50.00 57.18	.... 6.84	.... 8.95	11.00 8.29	Corn meal, gluten feed, cottonseed meal, linseed meal, malt grains, wheat bran, distillers' grains, molasses, calcium carbonate, salt.
20% Open Formula Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	20.00 21.98	4.50 4.74	53.00 55.80	.... 8.01	.... 9.47	8.00 7.86	Hominy feed, wheat bran, distillers' grains, corn gluten feed, cottonseed meal, soybean meal, molasses, oats, dicalcium phosphate, salt.
Trow Dairy Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	18.50 19.44	4.00 5.49	57.00 57.80	.... 6.94	.... 10.33	8.00 7.52	Wheat bran, corn meal, mixed feed, oats, gluten feed, cottonseed meal, molasses, calcium carbonate, salt.
Johnson's Dairy Feed Ralph P. Johnson Potter Place, N. H.	G. F.	16.00 18.39	3.00 4.27	56.00 60.11	.... 6.93	.... 10.30	9.00 8.24	Corn meal, linseed meal, cottonseed meal, oats, wheat bran, corn gluten feed, salt.

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Apex 20% Dairy Ration Kasco Mills Waverly, N. Y.	G. F.	20.00 22.72	3.50 3.82	50.00 54.67	.... 8.55	.... 10.24	12.00 10.42	Soybean meal, cottonseed meal, corn gluten feed, corn gluten meal, wheat bran, grain screenings, oat mill feed, cane molasses, salt, calcite.
Beatsall Milk Grains Kasco Mills Waverly, N. Y.	G. F.	22.00 24.65	4.50 4.86	50.00 52.87	.... 7.83	.... 9.79	10.00 8.45	Wheat bran, wheat middlings, mill run screenings, linseed meal, corn gluten feed, cottonseed meal, soybean meal, hominy feed, salt, calcite, beet pulp, molasses, corn gluten meal, brewers' grains.
Kasco 16% Dairy Feed Kasco Mills Waverly, N. Y.	G. F.	16.00 18.52	3.50 3.68	50.00 59.14	.... 8.51	.... 10.15	12.00 10.72	Wheat bran, corn gluten feed, cottonseed meal, barley, corn meal, grain screenings, molasses, salt, calcite, corn gluten meal, oat mill feed.
Larro: The Ready Ration Larrowe Milling Co. Detroit, Mich.	G. F.	20.00 21.45	3.75 3.99	57.00 58.98	.... 5.79	.... 9.79	12.00 10.53	Cottonseed meal, corn meal, wheat middlings, soybean oil meal, linseed meal, corn gluten feed, beet pulp, wheat bran, salt.
B-B Hi-Test Dairy Feed 20% Sweetened Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 21.76	4.00 3.69	50.00 57.27	.... 7.85	.... 9.43	12.00 9.94	Brewers' grains, linseed meal, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, oats, corn meal, grain screenings, wheat bran, molasses, bone meal, calcium carbonate, salt.
B-B Marmico 16% Dairy Feed Maritime Milling Co. Buffalo, N. Y.	G. F.	16.00 18.91	4.00 4.26	58.00 58.08	.... 8.85	.... 9.90	12.00 10.86	Brewers' grains, soybean oil meal, cottonseed meal, corn gluten feed, corn meal, grain screenings, wheat bran, oat hulls, oat shorts, oat middlings, molasses, bone meal, calcium carbonate, salt.

Bull Brand B-B 20 Dairy Ration Sweetened Maritime Milling Co. Buffalo, N. Y.	G. F.	20.00 22.81	4.50 **4.02**	55.00 56.55	.... 7.04	.... 9.58	11.00 8.72	Brewers' grains, cottonseed meal, corn gluten feed, soybean oil meal, hominy feed, corn meal, wheat bran, wheat middlings, mill run screenings, molasses, bone meal, calcium carbonate, salt.
Merrimack Dairy Ration Merrimack Farmers' Exchange Concord, N. H.	G. F.	20.00 21.89	4.00 4.76	50.00 55.05	.... 8.57	.... 9.73	10.00 7.35	Corn gluten feed, linseed meal, cottonseed meal, corn meal, wheat bran, wheat middlings, oats, salt, calcium carbonate, bone meal, soybean oil meal, brewers' grains.
Merrimack Eureka Dairy Ration Merrimack Farmers' Exchange Concord, N. H.	G. F.	20.00 21.41	4.00 **3.56**	55.00 57.78	.... 7.45	.... 9.80	11.00 10.16	Oat feed, gluten meal, cottonseed meal, wheat bran, gluten feed, soybean meal, molasses, limestone, salt.
Merrimack Milk Ration Sweetened Merrimack Farmers' Exchange Concord, N. H.	G. F.	20.00 21.41	4.00 4.05	54.00 57.23	.... 7.02	.... 10.29	8.50 8.61	Corn gluten meal, corn gluten feed, linseed meal, cottonseed meal, brewers' grains, corn meal, hominy feed, oats, wheat bran, wheat middlings, cane molasses, bone meal, calcium carbonate, salt.
U. S. 24% Dairy Ration Geo. O. Moon & Co. Binghamton, N. Y.	G. F.	24.00 **23.15**	3.00 3.80	.... 56.46	.... 7.57	.... 9.02	12.00 8.72	Corn gluten feed, cottonseed meal, rye distillers' grains, grain screenings, copra meal, clipped oat by-products, wheat bran, corn meal, hominy feed, calcium carbonate, salt, molasses, soybean meal.
U. S. 20% Dairy Ration Geo. O. Moon & Co. Binghamton, N. Y.	G. F.	20.00 20.00	3.00 3.90	.... 59.30	.... 7.55	.... 9.25	12.00 10.16	Corn gluten feed, cottonseed meal, copra meal, wheat bran, corn meal, corn distillers' grains, rye distillers' grains, oat feed, molasses, calcium carbonate, bone meal, salt, soybean meal.
Morrill's Dairy Ration J. H. Morrill Laconia, N. H.	G. F.	20.00 23.12	3.50 4.25	50.00 56.59	.... 6.14	.... 9.90	9.00 7.61	Corn gluten feed, linseed meal, oats, cottonseed meal, corn meal, wheat bran, salt, calcium carbonate.
Bidwell 24% Dairy Ration Park & Pollard Co. Boston, Mass.	G. F.	24.00 23.70	4.00 **3.17**	55.00 56.22	.... 8.06	.... 8.85	11.00 7.39	Wheat bran, linseed meal, soybean meal, barley, malt sprouts, corn gluten meal, cottonseed meal, corn gluten feed, grain screenings, molasses, calcium carbonate, salt.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Manamar Doublex 20% Dairy Ration....	G. 20.00	4.00	50.00	....	....	10.00	Kelp, fish meal, sea shells, linseed meal, gluten feed, gluten meal, barley, wheat bran, malt sprouts, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
Park & Pollard Co.	F. 20.00	4.00	56.17	9.86	9.97	10.00	
Boston, Mass.							
Milk Maid 24% Dairy Ration Sweetened..	G. 24.00	4.50	50.00	....	....	11.00	Corn gluten feed, linseed meal, cottonseed meal, distillers' grains, wheat bran, brewers' grains, malt sprouts, corn gluten meal, copra oil meal, corn meal, fish meal, molasses, calcium carbonate, salt.
Park & Pollard Co.	F. 24.00	4.30	55.67	7.78	8.25	8.86	
Boston, Mass.							
New Hampshire Ration	G. 20.00	3.00	45.00	....	....	9.00	Gluten feed, gluten meal, cottonseed meal, linseed meal, wheat bran, hominy, brewers' grains, molasses, bone meal, salt, limestone.
Park & Pollard Co.	F. 20.75	3.38	56.76	9.52	9.59	7.17	
Boston, Mass.							
Top Notch 16% Ration	G. 16.00	3.50	45.00	....	....	12.00	Corn distillers' grains, barley, malt sprouts, linseed meal, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
Park & Pollard Co.	F. 18.04	4.07	58.38	10.19	9.32	11.82	
Boston, Mass.							
Yankee 20% Dairy Ration	G. 20.00	3.50	55.00	....	....	9.00	Corn gluten feed, cottonseed meal, wheat bran, wheat middlings, corn gluten meal, linseed meal, oats, corn meal, brewers' grains, molasses, calcium carbonate, salt.
Park & Pollard Co.	F. 21.45	**3.10**	57.10	9.24	9.11	8.09	
Boston, Mass.							
Quaker 20% Protein Dairy Ration.....	G. 20.00	3.25	57.00	....	....	12.00	Hominy feed, barley meal, cottonseed meal, corn gluten feed, linseed meal, wheat bran, wheat middlings, oat mill feed, salt, limestone, molasses.
Quaker Oats Co.	F. 21.98	3.88	58.82	7.11	8.21	10.66	
Chicago, Ill.							
Protena 20% Dairy Feed	G. 20.00	3.00	50.00	....	....	12.00	Linseed meal, soybean oil meal, beet pulp, corn germ meal, cottonseed meal, gluten feed, wheat middlings, corn meal, wheat bran, molasses, iodized salt.
Ralston Purina Co.	F. 23.42	3.71	56.76	6.58	9.53	9.37	
St. Louis, Mo.							

Purina Blue Checker Cow Chow Ralston Purina Co. St. Louis, Mo.	G. F.	20.00 21.89	3.00 3.49	57.00 57.27	.... 6.79	.... 10.56	12.00 10.96	Beet pulp, linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, wheat middlings, wheat bran, corn meal, alfalfa meal, molasses, iodized salt.
Purina Green Checker Cow Chow 24% Ralston Purina Co. St. Louis, Mo.	G. F.	24.00 26.27	3.00 4.09	52.00 52.37	.... 7.22	.... 10.05	12.00 10.92	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, wheat middlings, wheat bran, alfalfa meal, molasses, iodized salt.
Purina Heifer Growing Chow Ralston Purina Co. St. Louis, Mo.	G. F.	14.00 16.73	2.50 3.67	58.00 60.75	.... 7.29	.... 11.56	14.00 13.09	Soybean oil meal, oats, alfalfa meal, corn, cottonseed meal, wheat bran, molasses, grain screenings, iodized salt.
Spaulding's Dairy Feed F. B. Spaulding Co. Lancaster, N. H.	G. F.	20.00 21.67	4.00 4.28	50.00 58.66	.... 6.35	.... 9.04	10.00 8.12	Linseed meal, cottonseed meal, gluten feed, corn meal, rye distillers' grains, brewers' grains, wheat middlings, wheat bran, mill run screenings, salt, calcium carbonate, molasses.
Champlain Valley Emergency 24 Dairy Ration St. Albans Grain Co. St. Albans, Vt.	G. F.	24.00 25.26	3.50 3.97	53.00 52.56	.... 7.31	.... 10.90	8.50 8.50	Corn gluten meal, corn gluten feed, linseed meal, soybean oil meal, cottonseed meal, brewers' grains, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, cane molasses.
Champlain Valley Emergency 20 Dairy Ration St. Albans Grain Co. St. Albans, Vt.	G. F.	20.00 21.71	3.50 4.04	56.00 56.49	.... 7.54	.... 10.22	8.50 8.08	Linseed meal, soybean oil meal, cottonseed meal, brewers' grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
Hygrade Fitting Ration St. Albans Grain Co. St. Albans, Vt.	G. F.	12.00 14.23	4.50 4.41	65.00 62.73	.... 6.89	.... 11.74	8.00 5.38	Linseed meal, soybean oil meal, oats, barley, corn meal, hominy feed, wheat middlings, wheat bran, cane molasses, calcium carbonate, salt.
Hygrade 24 Milk Ration Sweetened St. Albans Grain Co. St. Albans, Vt.	G. F.	24.00 24.34	3.50 3.66	50.00 54.11	.... 8.65	.... 9.24	9.00 7.78	Corn gluten meal, corn gluten feed, linseed meal, soybean oil meal, cottonseed meal, brewers' grains, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, calcium carbonate, salt, cane molasses.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Hygrade 20 Milk Ration Sweetened St. Albans Grain Co. St. Albans, Vt.	G. 20.00 F. 21.19	3.50 4.32	54.00 57.16	.... 7.09	.... 10.24	8.50 8.14	Linseed meal, soybean oil meal, cottonseed meal, brewers' grains, corn gluten meal, corn gluten feed, corn meal, hominy feed, oats, barley, wheat bran, wheat middlings, cane molasses, calcium carbonate, salt.
Utility Dairy Ration St. Albans Grain Co. St. Albans, Vt.	G. 20.00 F. 21.62	3.50 3.79	56.00 57.53	.... 8.04	.... 9.02	11.50 10.99	Linseed meal, soybean oil meal, corn gluten feed, cottonseed meal, corn meal, oats, barley, brewers' grains, oat middlings, oat shorts, oat hulls, wheat bran, wheat middlings, calcium carbonate, cane molasses, salt, hominy feed.
Wirthmore 25 Sweetened Balanced Ration St. Albans Grain Co. St. Albans, Vt.	G. 25.00 F. **24.08**	4.50 4.26	55.00 54.53	.... 7.69	.... 9.44	8.50 7.61	Corn gluten meal, soybean oil meal, corn distillers' grains, linseed meal, oats, corn gluten feed, brewers' grains, cottonseed meal, wheat middlings, corn meal, wheat bran, bone meal, salt, cane molasses.
Wirthmore 20 Dairy Feed Sweetened.... St. Albans Grain Co. St. Albans, Vt.	G. 20.00 F. 22.28	4.50 4.41	59.00 57.64	.... 5.66	.... 10.01	8.00 7.13	Corn gluten meal, corn distillers' grains, linseed meal, brewers' grains, cottonseed meal, corn gluten feed, corn meal, oats, wheat middlings, wheat bran, bone meal, soybean oil meal, cane molasses, salt.
Wirthmore Fodder Greens St. Albans Grain Co. St. Albans, Vt.	G. 10.00 F. 14.36	3.00 3.71	60.00 67.26	.... 4.97	.... 9.70	15.00 13.52	Beet pulp, alfalfa meal, brewers' grains, wheat bran, hominy feed, cane molasses, calcium carbonate, salt.
Strafford County Dairy Feed Strafford County Grain Mill Rochester, N. H.	G. 18.00 F. 23.38	5.00 5.10	50.00 56.45	.... 6.86	.... 8.21	9.00 9.21	Wheat bran, corn meal, oats, linseed meal, corn gluten feed, cottonseed meal, salt, bone meal, molasses.

Stratton's White Clover 20% Dairy Feed..	G.	20.00	4.00	50.00	....	....	11.00	Wheat bran, linseed meal, oat hulls, oat shorts, oat middlings, corn gluten feed, barley, cottonseed meal, grain screenings, molasses, calcium carbonate, salt.
Stratton & Co.	F.	20.22	3.92	56.42	9.43	10.01	9.27	
Concord, N. H.								
Just Right Dairy Ration 20%	G.	20.00	4.50	58.00	....	....	10.00	Corn gluten feed, oats, corn, wheat bran, linseed meal, cottonseed meal, salt, calcium carbonate, bone meal.
B. M. Varrell Grain Co.	F.	22.94	4.71	53.56	9.87	8.92	8.37	
Portsmouth, N. H.								
Eventually Gold Medal Dairy Ration....	G.	20.00	4.50	60.00	....	....	8.50	Wheat bran, wheat middlings, oats, corn meal, corn gluten feed, cottonseed meal, linseed meal, limestone, salt.
Washburn Crosby Co.	F.	21.41	4.59	56.44	8.27	9.29	8.31	
Minneapolis, Minn.								
Blue Seal 20 Dairy Ration	G.	20.00	5.00	54.00	....	....	8.50	Cottonseed meal, hominy feed, malt sprouts, corn gluten feed, wheat bran, oats, cane molasses, peanut skins, peanut germs, linseed meal, fish meal, salt.
H. K. Webster Co.	F.	21.23	5.38	57.66	5.71	10.02	8.47	
Lawrence, Mass.								
Blue Seal Special 20% Dairy Ration....	G.	20.00	5.50	54.00	....	....	10.00	Cottonseed meal, corn gluten feed, malt sprouts, wheat bran, cane molasses, oat feed, linseed meal, peanut skins, peanut germs, hominy feed, calcium carbonate, salt.
H. K. Webster Co.	F.	20.18	**4.39**	58.65	7.19	9.59	12.08	
Lawrence, Mass.								
DISTILLERS' GRAINS								
Distiller's Bourbon Dried Grains....	G.	30.00	6.00	51.00	....	....	13.00	
Glenmore Distilleries Co.	F.	29.77	10.56	51.00	2.13	6.54	12.81	
Owensboro, Ky.								
Kelley's Rye Distillers' Grains....	G.	17.00	5.00	60.00	....	....	20.00	
F. W. Kelley	F.	16.55	7.10	65.40	1.44	9.51	14.84	
St. Johnsbury, Vt.								
FISH MEAL								
Maine Vitamin D Fish Meal	G.	55.00	1.00	....	....	....	1.00	
Maine Fish Meal Co.	F.	**53.64**	17.41	....	17.39	10.52	....	
Portland, Me.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs					Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Register Brand Cod and Haddock Fish Meal	G.	60.00	3.00	....	....	....	1.00	
John Reardon & Sons Co. Cambridge, Mass.	F.	63.74	4.55	....	23.83	7.67	....	
GLUTEN FEED								
Cream of Corn Gluten Feed	G.	25.00	2.00	58.50	....	....	8.50	
American Maize Products Co. New York, N. Y.	F.	27.70	4.58	55.19	5.05	7.48	....	
Bacon's Gluten Feed	G.	24.00	2.00	....	....	....	8.00	
E. R. Bacon Grain Co. Boston, Mass.	F.	27.17	3.30	59.71	3.12	6.70	....	
Buffalo Corn Gluten Feed	G.	25.00	2.00	50.00	....	....	8.50	
Corn Products Refining Co. New York, N. Y.	F.	27.62	2.00	56 29	5.50	8.59	....	
Douglas Corn Gluten Feed	G.	25.00	1.50	55.50	....	....	8.50	
Penick & Ford Ltd. Cedar Rapids, Iowa	F.	26.05	2.44	55.71	7.15	8.65	....	
Staley's Corn Gluten Feed	G.	25.00	1.00	53.00	....	....	8.00	
A. E. Staley Mfg. Co. Decatur, Ill.	F.	27.71	1.73	53.45	5.82	11.29	....	
Union Corn Gluten Feed	G.	25.00	1.00	50.00	....	....	8.00	
Union Starch & Refining Co. Columbus, Ind.	F.	28.15	1.80	57.04	5.14	7.87	....	
GLUTEN MEAL								
Diamond Corn Gluten Meal	G.	43.00	1.00	42.00	....	....	4.00	
Corn Products Refining Co. New York, N. Y.	F.	43.08	1.96	45.11	1.26	8.59	....	

HOMINY FEED								
O-Corn-O Hominy Feed	G.	10.00	6.50	....	....	....	5.00	
Kellogg Co. of Canada London, Ontario	F.	10.42	7.97	71.39	2.06	8.16	....	
Hominy Feed	G.	10.00	5.00	60.00	....	....	5.00	
Patent Cereals Co. Geneva, N. Y.	F.	12.30	6.29	69.01	2.48	9.92	....	
Burt's Hominy Feed	G.	10.00	6.00	65.00	....	....	5.00	
Postum Co. Battle Creek, Mich.	F.	12.21	5.95	68.76	2.76	10.32	4.41	
KELP								
Kelco Meal	G.	3.00	0.10	40.00	....	....	10.00	Kelp.
Kelco Company Chicago, Ill.	F.	4.95	0.44	50.29	33.36	10.96	6.00	
LINSEED MEAL								
Linseed Meal Old Process	G.	34.00	4.50	33.00	....	....	9.00	
Archer-Daniels Midland Co. Minneapolis, Minn.	F.	35.03	5.81	44.25	6.10	8.81	....	
Bisbee Brand Pure Old Process Linseed Meal	G.	34.00	5.00	42.00	....	....	10.00	
Bisbee Linseed Co. Chicago Heights, Ill.	F.	37.04	6.24	40.34	6.50	9.88	....	
K & M Brand 34% Linseed Meal	G.	34.00	5.00	40.00	....	....	10.00	
Kelloggs & Miller Amsterdam, N. Y.	F.	**33.38**	6.52	44.77	6.62	8.71	8.32	
MEAT SCRAPS								
Corenco 50% Meat Scrap	G.	50.00	6.00	....	....	....	....	
Consolidated Rendering Co. Boston, Mass.	F.	51.22	9.51	....	30.57	7.92	....	

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Corenco 45% Meat and Bone Scrap	G.	45.00	6.00	....	....	....	....	
Consolidated Rendering Co.	F.	46.93	10.11	....	33.65	7.01	....	
Boston, Mass.								
Morse's 45% Meat Scraps	G.	45.00	8.00	....	....	....	....	
James F. Morse & Co.	F.	45.00	8.81	....	37.77	7.15	....	
Somerville, Mass.								
Brighton Bull Meat Scraps	G.	45.00	8.00	....	....	....	1.00	
New England Rendering Co.	F.	48.73	11.46	....	30.89	4.74	....	
Brighton, Mass.								
Register Brand Meat and Bone Scrap	G.	45.00	6.00	....	....	....	....	
John Reardon & Sons Co.	F.	45.00	10.21	....	38.19	5.22	....	
Cambridge, Mass.								
Vico Pure Meat Bone Scraps	G.	45.00	5.00	....	....	....	3.00	
Van Iderstine Co.	F.	46.93	11.43	....	30.58	7.00	....	
Long Island City, N. Y.								
OAT HULLS								
Re-ground Oat Feed	G.	3.50	1.25	....	....	....	35.00	Oat hulls.
Northern Illinois Cereal Co.	F.	3.50	**0.91**	82.80	7.21	5.58	33.64	
Lockport, Ill.								
Vim Feed	G.	5.00	2.00	77.00	....	....	30.00	Oat mill feed.
Quaker Oats Co.	F.	6.13	**1.71**	79.01	6.32	6.83	28.88	
Chicago, Ill.								
Red 3 Reground Oat Hulls	G.	3.50	1.25	72.50	....	....	32.50	Oat shorts, oat hulls.
Three Minute Cereals Co.	F.	3.33	**0.72**	82.65	7.45	5.85	33.44	
Cedar Rapids, Iowa								

Pulverized Oat Hulls	G.	4.00	1.00	....	....	....	30.00	Oat middlings, oat hulls.
James Wilson & Sons	F.	3.85	1.50	82.76	5.35	6.54	31.12	
Fergus, Ontario								
OAT MEAL								
Ground Oat Groats	G.	15.00	5.00	64.00	....	....	4.00	
Checkerboard Elevator Co.	F.	15.42	6.03	66.92	2.20	9.43	2.94	
St. Louis, Mo.								
Red 3 Feeding Oatmeal	G.	14.50	5.00	60.00	....	....	3.70	
Three Minute Cereals Co.	F.	17.42	5.41	65.90	2.50	8.77	3.60	
East St. Louis, Ill.								
POULTRY FEED								
Empire Egg Mash	G.	16.50	3.50	57.00	....	....	7.00	Buttermilk, skimmed milk, meat scraps, soybean oil meal, alfalfa meal, wheat bran, wheat middlings, corn gluten feed, corn meal, oats, limestone, salt, sardine oil.
Allied Mills	F.	17.95	5.22	58.87	7.54	10.42	5.99	
Chicago, Ill.								
Empire Growing Mash	G.	16.00	3.00	57.00	....	....	7.00	Corn meal, wheat bran, soybean oil meal, oats, meat scraps, wheat middlings, alfalfa meal, skimmed milk, buttermilk, salt, lime stone, sardine oil.
Allied Mills	F.	16.77	5.79	60.76	6.59	10.09	5.54	
Chicago, Ill.								
Wayne All Mash Laying Ration	G.	15.50	3.50	57.00	....	....	7.00	Buttermilk, skimmed milk, meat scraps, fish meal, oat groats, wheat flour middlings, wheat bran, corn meal, oats, alfalfa meal, soybean oil meal, limestone, salt.
Allied Mills	F.	15.98	4.42	62.03	7.35	10.22	5.32	
Chicago, Ill.								
Wayne Breeder Mash	G.	18.00	4.00	52.00	....	....	7.00	Fish meal, meat scraps, buttermilk, skimmed milk, soybean oil meal, alfalfa meal, wheat bran, corn germ meal, wheat middlings, oats, crab meal, limestone, salt, sardine oil, corn meal.
Allied Mills	F.	20.70	6.05	53.20	9.84	10.21	6.09	
Chicago, Ill.								
Wayne Broiler Ration	G.	18.00	3.50	53.00	....	....	8.00	Buttermilk, skimmed milk, meat scraps, fish meal, corn meal, oats, wheat middlings, wheat bran, soybean oil meal, alfalfa meal, lime-stone, salt, sardine oil.
Allied Mills	F.	19.00	5.34	56.77	8.25	10.64	5.76	
Chicago, Ill.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wayne Chick Starter	G. 17.00	4.00	56.00	....	....	6.00	Buttermilk, skimmed milk, meat scraps, fish meal, wheat middlings, corn meal, oat meal, alfalfa meal, soybean oil meal, wheat bran, limestone, salt, sardine oil.
Allied Mills	F. 18.17	5.08	57.76	8.72	10.27	5.66	
Chicago, Ill.							
Wayne Egg Mash	G. 18.00	3.50	52.00	....	....	7.00	Buttermilk, skimmed milk, meat scraps, fish meal, wheat middlings, wheat bran, corn meal, oat meal, corn gluten feed, choice alfalfa meal, soybean oil meal, limestone, salt.
Allied Mills	F. 18.65	5.28	56.51	8.89	10.67	6.02	
Chicago, Ill.							
Wayne Growing Mash	G. 16.00	4.00	56.00	....	....	6.00	Buttermilk, skimmed milk, meat scraps, fish meal, wheat middlings, corn meal, oat meal, alfalfa meal, soybean oil meal, wheat bran, limestone, salt, sardine oil.
Allied Mills	F. 17.64	5.98	57.32	8.82	10.24	4.57	
Chicago, Ill.							
Pennant Brand Laying Mash	G. 20.00	5.00	50.00	....	....	6.00	Hominy feed, wheat middlings, corn gluten feed, oats, wheat bran, beef scraps, skimmed milk, alfalfa leaf meal, salt.
E. W. Bailey & Co.	F. 23.20	**4.51**	53.08	9.12	10.09	4.97	
Montpelier, Vt.							
Barco Special Growing Feed with Cod Liver Oil	G. 14.00	5.00	40.00	....	....	5.00	Wheat bran, wheat red dog middlings, oats, skimmed milk, beef scraps, charcoal, bone meal, alfalfa leaf meal, salt, cod liver oil.
G. N. Bartemus Co.	F. 18.95	5.79	56.31	9.34	9.61	5.42	
Concord, N. H.							
Barco Special Mash Feed with Cod Liver Oil	G. 20.00	5.00	50.00	....	....	6.00	Hominy, corn gluten feed, wheat middlings, oats, wheat bran, beef scraps, skimmed milk, alfalfa leaf meal, salt, cod liver oil.
G. N. Bartemus Co.	F. 23.38	5.70	52.00	9.48	9.44	5.64	
Concord, N. H.							
Concord Mash	G. 20.00	4.00	47.00	....	....	8.00	Wheat bran, corn gluten feed, alfalfa leaf meal, oats, beef scraps, red dog middlings, skimmed milk, hominy, salt.
G. N. Bartemus Co.	F. 22.20	4.93	54.41	8.88	9.58	6.92	
Concord, N. H.							

Beacon Breeders' Mash	G.	20.00	4.00	47.00	....	....	7.00	Skimmed milk, buttermilk, meat scraps, fish meal, alfalfa leaf meal, corn meal, oats, barley, corn gluten meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, linseed meal, salt, calcium carbonate, calcium phosphate.
Beacon Milling Co.	F.	20.97	4.76	53.13	11.46	9.68	6.14	
Cayuga, N. Y.								
Beacon Broiler Feed	G.	17.00	4.00	52.00	....	....	6.00	Skimmed milk, meat scraps, fish meal, corn meal, oats, barley, wheat bran, mill run screenings, soybean oil meal, wheat red dog flour, alfalfa leaf meal, salt, calcium carbonate, calcium phosphate.
Beacon Milling Co.	F.	19.22	4.88	57.50	8.15	10.25	4.46	
Cayuga, N. Y.								
Beacon's Cayuga Laying Mash	G.	20.00	4.00	54.00	....	....	7.00	Buttermilk, skimmed milk, fish meal, meat scraps, corn meal, alfalfa leaf meal, wheat bran, mill run screenings, wheat middlings, soybean oil meal, barley, corn gluten meal, oats, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co.	F.	22.24	5.61	50.46	11.68	10.01	5.87	
Cayuga, N. Y.								
Beacon Complete Starting Ration	G.	17.50	4.00	50.00	....	....	6.00	Skimmed milk, meat scraps, fish meal, corn meal, oats, barley, wheat bran, mill run screenings, linseed meal, wheat red dog flour, alfalfa leaf meal, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co.	F.	18.52	5.30	58.44	8.83	8.91	5.19	
Cayuga, N. Y.								
Beacon Egg Mash	G.	22.00	4.50	51.00	....	....	7.00	Buttermilk, skimmed milk, meat scraps, fish meal, corn gluten meal, soybean oil meal, linseed meal, barley, oats, corn meal, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co.	F.	23.25	5.96	48.82	12.91	9.06	5.99	
Cayuga, N. Y.								
Beacon Fleshing Pellets	G.	15.00	4.00	55.00	....	....	5.00	Skimmed milk, oats, barley, wheat low grade flour, corn meal, linseed meal, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co.	F.	16.94	3.43	64.09	5.71	9.83	5.18	
Cayuga, N. Y.								
Beacon Growing Mash	G.	17.00	4.00	55.00	....	....	7.00	Skimmed milk, meat scraps, fish meal, linseed meal, soybean oil meal, oats, barley, corn meal, wheat red dog flour, alfalfa leaf meal, wheat bran, wheat middlings, mill run screenings, calcium carbonate, calcium phosphate, salt.
Beacon Milling Co.	F.	19.35	5.62	53.52	11.12	10.39	5.97	
Cayuga, N. Y.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Chase Growing Mash David C. Chase Smithtown, N. H.	G. 15.00 F. 17.47	5.00 5.32	50.00 57.58	.... 10.09	.... 9.54	9.00 7.68	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, bone meal, charcoal, salt, buttermilk.
Chase Laying Mash David C. Chase Smithtown, N. H.	G. 19.00 F. 21.80	5.00 5.22	48.00 53.64	.... 9.90	.... 9.44	8.00 7.66	Corn meal, oat meal, wheat bran, wheat middlings, meat scraps, corn gluten feed, charcoal, salt, buttermilk.
Corson No. 1 Laying Mash Freeman Corson Rochester, N. H.	G. 17.00 F. 19.70	5.00 5.00	57.00 52.43	.... 13.92	.... 8.95	7.00 7.87	Wheat bran, wheat middlings, corn meal, barley, meat scraps, fish scraps, alfalfa leaf meal, salt, oats, skimmed milk.
Coweco Sunrise Laying Mash E. A. Cowee Co. Fitchburg, Mass.	G. 16.00 F. 21.49	3.50 6.18	50.00 46.40	.... 16.30	.... 9.63	8.00 6.87	Wheat bran, wheat middlings, corn meal, hominy, oats, corn gluten feed, soybean meal, meat scraps, alfalfa meal, bone meal, milk, cod liver oil, calcium carbonate, salt.
Delaware All Mash Chick Starter Delaware Mills Deposit, N. Y.	G. 15.00 F. 18.17	4.00 5.04	60.00 55.76	.... 11.17	.... 9.86	6.00 5.43	Cod liver oil, skimmed milk, meat scraps, fish meal, oat meal, linseed meal, alfalfa leaf meal, corn meal, wheat bran, wheat middlings, bone meal, calcium carbonate, charcoal, salt.
Delaware Growing Mash Delaware Mills Deposit, N. Y.	G. 17.00 F. 19.30	5.00 5.93	55.00 57.66	.... 7.81	.... 9.30	6.00 5.11	Cod liver oil, skimmed milk, alfalfa leaf meal, meat scraps, fish meal, bone meal, linseed oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat flour middlings, oat meal, wheat meal, calcium carbonate, salt.
Delaware Laying Mash Delaware Mills Deposit, N. Y.	G. 20.00 F. 21.01	5.00 6.54	50.00 52.32	.... 10.04	.... 10.09	6.00 5.24	Cod liver oil, skimmed milk, meat scraps, bone meal, fish meal, linseed oil meal, corn gluten feed, corn meal, wheat bran, wheat middlings, wheat red dog flour, oat meal, barley, alfalfa leaf meal, calcium carbonate, salt.

Delco Laying Mash	G.	16.00	4.00	50.00	....	....	7.50	Skimmed milk, meat scraps, bone meal, corn gluten meal, corn gluten feed, wheat bran, wheat middlings, hominy feed, oats, alfalfa meal, calcium phosphate, salt, cod liver oil.
Delaware Mills	F.	18.61	4.57	55.88	10.94	10.00	7.43	
Deposit, N. Y.								
D & G All Mash Laying Mash	G.	15.00	4.50	56.00	....	....	6.00	Corn, wheat, oats, wheat flour middlings, wheat bran, alfalfa leaf meal, buttermilk, meat scraps, fish meal, soybean meal, bone meal, calcium carbonate, salt.
Dietrich & Gambrill	F.	19.22	5.09	57.88	7.55	10.26	4.97	
Frederick, Md.								
D & G Breeder Mash	G.	19.00	5.00	53.00	....	....	9.00	Wheat bran, wheat middlings, corn meal, oats, alfalfa leaf meal, fish meal, meat scraps, peanut meal, buttermilk, cod liver oil, malt flour, bone meal, calcium carbonate, salt.
Dietrich & Gambrill	F.	23.29	5.09	52.46	9.75	9.41	5.63	
Frederick, Md.								
Frederick Laying Mash	G.	18.00	4.00	53.00	....	....	8.00	Wheat bran, wheat middlings, corn feed meal, oats, corn gluten meal, meat scraps, fish meal, alfalfa meal, soybean meal, bone meal, calcium carbonate, salt, buttermilk, cod liver oil.
Dietrich & Gambrill	F.	19.79	4.82	56.40	7.74	11.25	4.74	
Frederick, Md.								
Eastern States Combination Mash	G.	15.00	4.00	57.00	....	....	6.50	Corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, oats, skimmed milk, alfalfa leaf meal, meat scraps, fish meal, oyster shell meal, dicalcium phosphate, sardine oil, salt.
Eastern States Farmers' Exchange	F.	16.20	5.09	60.56	7.78	10.37	5.11	
Springfield, Mass.								
Eastern States Controller Mash	G.	18.50	2.50	56.00	....	....	4.00	Skimmed milk, corn meal, wheat bran, mill run wheat screenings, oat groats, oyster shell meal, salt, dicalcium phosphate, sardine oil.
Eastern States Farmers' Exchange	F.	20.40	3.70	59.89	6.79	9.22	3.87	
Springfield, Mass.								
Eastern States Developer Mash	G.	18.50	4.00	53.00	....	....	6.50	Corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, barley, oats, skimmed milk, soybean oil meal, alfalfa leaf meal, meat scraps, fish meal, dicalcium phosphate, oyster shell meal, sardine oil, salt.
Eastern States Farmers' Exchange	F.	19.92	5.25	56.26	8.63	9.94	5.39	
Springfield, Mass.								
Eastern States Producer 20	G.	20.00	4.00	49.00	....	....	6.00	Corn meal, wheat bran, mill run wheat screenings, wheat flour middlings, meat scraps, oats, alfalfa leaf meal, skimmed milk, fish meal, soybean oil meal, oyster shell meal, dicalcium phosphate, sardine oil, salt.
Eastern States Farmers' Exchange	F.	21.01	5.44	53.51	11.01	9.03	4.92	
Springfield, Mass.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Elmore Complete Laying Ration Elmore Milling Co. Oneonta, N. Y.	G. 16.00 F. 18.30	4.00 5.90	60.00 57.31	.... 7.86	.... 10.63	6.00 5.77	Meat scraps, fish meal, oat groats, corn meal, alfalfa leaf meal, wheat bran, wheat middlings, skimmed milk, cod liver oil, calcium carbonate, salt.
Elmore Egg Maker Elmore Milling Co. Oneonta, N. Y.	G. 17.00 F. 19.87	4.50 6.32	55.00 55.51	.... 8.50	.... 9.80	8.00 5.52	Buttermilk, meat scraps, wheat bran, wheat red dog middlings, corn meal, fish meal, oats, calcium carbonate, salt, cod liver oil.
Elmore Egg Mash Elmore Milling Co. Oneonta, N. Y.	G. 18.00 F. 20.84	4.00 5.77	.... 55.23	.... 8.29	.... 9.87	8.00 5.32	Buttermilk, meat scraps, wheat flour, oats, wheat middlings, corn meal, wheat bran, alfalfa leaf meal, calcium carbonate, salt, cod liver oil, fish meal.
C Laying Mash Farm Service Stores Fitchburg, Mass.	G. 15.00 F. 18.39	4.00 4.36	55.00 59.27	.... 7.75	.... 10.23	8.50 5.53	Corn meal, wheat bran, wheat middlings, oats, meat scraps, bone meal, alfalfa meal, salt.
North Star Growing Mash Farm Service Stores Fitchburg, Mass.	G. 16.00 F. 20.79	4.00 5.37	45.00 52.93	.... 11.50	.... 9.41	7.00 5.50	Corn meal, oats, wheat bran, wheat middlings, gluten feed, linseed meal, soybean meal, milk, alfalfa meal, meat scraps, fish meal, calcium carbonate, salt.
North Star Laying Mash Farm Service Stores Fitchburg, Mass.	G. 20.00 F. 22.94	4.00 4.77	45.00 49.11	.... 12.97	.... 10.21	6.50 6.48	Corn meal, oats, alfalfa meal, wheat middlings, wheat bran, gluten feed, soybean meal, beef scraps, fish meal, dried milk, calcium carbonate, salt.
Henfield Egg Mash First National Stores Somerville, Mass.	G. 20.00 F. 22.29	5.00 **4.64**	50.00 56.40	.... 7.41	.... 9.26	7.00 7.13	Cod liver oil, meat scraps, fish meal, buttermilk, alfalfa meal, oats, hominy, corn meal, wheat middlings, wheat bran, corn gluten feed, linseed meal, bone meal, calcium carbonate, salt.

Flory's Growing Mash	G.	17.00	4.50	53.00	....	....	6.00	Oat meal, corn meal, wheat bran, wheat middlings, alfalfa meal, tomato pulp, barley, buttermilk, milk sugar feed, fish meal, meat meal, crab meal, soybean meal, linseed meal, oats, cod liver oil, calcium carbonate, calcium phosphate, salt.
Flory Milling Co. Bangor, Pa.	F.	18.69	6.42	56.70	8.17	10.02	6.81	
Golden Egg Laying Mash	G.	20.00	4.00	48.00	....	....	7.00	Buttermilk, beef scraps, fish meal, crab meal, tomato pulp, linseed meal, soybean meal, corn meal, wheat flour middlings, barley, wheat bran, oats, alfalfa meal, corn gluten meal, milk sugar feed, buckwheat middlings, cocoanut oil meal, cod liver oil, calcium carbonate, calcium phosphate, salt.
Flory Milling Co. Bangor, Pa.	F.	21.80	5.79	52.63	10.26	9.52	7.70	
Grandin's Combined Chick and Broiler Ration	G.	15.00	4.00	50.00	....	....	6.00	Buttermilk, meat scraps, fish meal, alfalfa leaf meal, wheat middlings, corn meal, hominy feed, oats, wheat, barley, bone meal, calcium carbonate, salt, cod liver oil.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	17.64	5.47	58.06	7.89	10.94	4.73	
Grandin's Complete Starting Ration	G.	16.00	4.00	50.00	....	....	6.00	Buttermilk, cod liver oil, meat scraps, fish meal, wheat bran, wheat middlings, alfalfa leaf meal, hominy feed, corn, wheat, oats, barley, calcium carbonate, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	17.51	5.11	59.19	7.75	10.44	4.84	
Grandin's Laying Mash	G.	20.00	4.00	50.00	....	....	8.00	Fish meal, meat scraps, corn gluten feed, corn gluten meal, wheat bran, wheat middlings, mill run screenings, corn feed meal, hominy feed, oats, buttermilk, alfalfa meal, calcium carbonate, salt, cod liver oil.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	22.72	5.30	45.36	16.78	9.84	5.33	
Daily Egg Mash Feed	G.	20.00	4.50	56.00	....	....	7.00	Oats, barley, soybean oil meal, linseed meal, corn gluten meal, wheat middlings, wheat bran, alfalfa meal, corn feed meal, buttermilk, skimmed milk, meat scraps, fish meal, cod liver oil, cod liver meal, calcium carbonate, bone meal, salt.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	20.88	4.80	50.11	13.67	10.54	5.85	
Daily Growth Chick Starter	G.	16.00	4.00	58.00	....	....	5.00	Buttermilk, skimmed milk, meat scraps, wheat flour, wheat middlings, corn feed meal, oats, linseed meal, alfalfa meal, cod liver oil, calcium carbonate, salt, bone meal.
Great Atlantic & Pacific Tea Co. New York, N. Y.	F.	16.77	4.71	63.65	4.82	10.05	4.26	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Daily Growth Growing Mash Great Atlantic & Pacific Tea Co. New York, N. Y.	G. 17.50 F. 17.95	4.00 4.69	58.00 61.62	.... 6.08	.... 9.66	7.00 6.01	Meat scraps, buttermilk, skimmed milk, wheat bran, alfalfa meal, wheat middlings, corn feed meal, oats, barley, linseed meal, corn gluten feed, cod liver oil, calcium carbonate, bone meal, salt.
Red Comb Broiler Mash Hales & Hunter Co. Chicago, Ill.	G. 18.00 F. 20.05	4.00 4.54	56.00 58.68	.... 7.61	.... 9.12	7.00 5.01	Corn meal, feeding oatmeal, wheat bran, wheat middlings, corn gluten feed, meat scraps, alfalfa meal, soybean oil meal, fish meal, sardine oil, cod liver oil, buttermilk, salt, calcium carbonate, bone meal, charcoal.
Red Comb Egg Mash Hales & Hunter Co. Chicago, Ill.	G. 18.00 F. 20.31	4.00 5.69	56.00 53.71	.... 11.29	.... 9.00	7.00 6.58	Corn meal, feeding oat meal, wheat bran, wheat middlings, corn gluten feed, meat scraps, alfalfa meal, soybean oil meal, fish meal, cod liver oil, sardine oil, buttermilk, calcium carbonate, bone meal, salt, charcoal.
Cheshire County Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 18.00 F. 20.01	4.00 4.95	50.00 54.24	.... 11.34	.... 9.46	5.00 6.32	Wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, oats, alfalfa leaf meal, calcium carbonate, salt, milk.
Granite State Chick Starter E. C. & W. L. Hopkins Greenfield, N. H.	G. 16.00 F. 19.00	4.00 5.32	50.00 56.90	.... 9.55	.... 9.23	6.00 6.83	Corn meal, wheat bran, wheat middlings, wheat red dog flour, feeding oat meal, skimmed milk, meat scraps, alfalfa leaf meal, kelp, fish meal, charcoal, calcium carbonate, salt, cod liver oil.
Granite State Egg Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 19.00 F. 20.18	4.00 5.89	50.00 52.05	.... 12.71	.... 9.17	5.00 5.36	Corn meal, wheat bran, wheat middlings, barley, meat scraps, alfalfa leaf meal, oat meal, skimmed milk, fish meal, kelp, calcium carbonate, salt.
New Hampshire Laying Mash E. C. & W. L. Hopkins Greenfield, N. H.	G. 17.00 F. 18.34	4.00 4.95	55.00 56.32	.... 9.71	.... 10.68	5.00 5.79	Corn meal, wheat bran, wheat flour middlings, oats, meat scraps, milk, fish meal, alfalfa leaf meal, calcium carbonate, salt.

New Hampshire Starter	G.	17.50	4.00	55.00	....	....	4.00	Corn meal, wheat bran, wheat flour middlings, oat groats, meat scraps, milk, fish meal, alfalfa leaf meal, calcium carbonate, salt, cod liver oil.
E. C. & W. L. Hopkins	F.	19.30	5.38	55.66	9.82	9.84	4.89	
Greenfield, N. H.								
Johnson's Mash Feed	G.	19.00	4.25	55.00	....	....	7.00	Corn meal, oats, wheat middlings, wheat bran, meat scraps, calf meal, corn gluten feed, alfalfa meal, charcoal, buttermilk, calcite flour, bone meal, cod liver oil, salt.
Ralph P. Johnson	F.	20.27	4.39	53.98	12.10	9.26	5.31	
Potter Place, N. H.								
Apex Complete Grower	G.	14.00	4.00	55.00	....	....	8.50	Wheat bran, wheat middlings, mill run screenings, corn meal, linseed meal, soybean meal, alfalfa meal, oats, meat scraps, bone meal, skimmed milk, milk sugar feed, salt, calcite, cod liver oil.
Kasco Mills	F.	16.77	5.23	59.23	7.51	11.26	5.06	
Waverly, N. Y.								
Apex Laying Mash	G.	20.00	4.00	50.00	....	....	8.50	Wheat bran, wheat middlings, mill run screenings, corn meal, linseed meal, soybean meal, oats, meat scraps, bone meal, fish meal, skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal.
Kasco Mills	F.	19.73	5.51	53.40	11.51	9.85	4.81	
Waverly, N. Y.								
Kasco All Mash Chick Food	G.	17.00	4.00	55.00	....	....	5.50	Wheat red dog flour, oat meal, wheat middlings, wheat bran, mill run screenings, corn meal, meat scraps, fish meal, bone meal, linseed meal, skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa leaf meal.
Kasco Mills	F.	17.99	5.05	56.44	9.96	10.56	4.06	
Waverly, N. Y.								
Kasco All Mash Laying Food	G.	15.00	4.00	55.00	....	....	6.00	Corn meal, oat meal, wheat bran, wheat middlings, mill run screenings, wheat red dog flour, linseed meal, soybean meal, barley, meat scraps, bone meal, fish meal, skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal.
Kasco Mills	F.	16.07	5.37	61.29	6.96	10.31	4.69	
Waverly, N. Y.								
Kasco Laying Mash	G.	20.00	4.00	50.00	....	....	6.50	Wheat bran, wheat middlings, mill run screenings, wheat red dog flour, corn meal, linseed meal, soybean meal, oat meal, meat scraps, bone meal, fish meal, skimmed milk, milk sugar feed, salt, calcite, cod liver oil, alfalfa meal.
Kasco Mills	F.	20.84	5.34	52.36	12.14	9.32	5.55	
Waverly, N. Y.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Kasco Poultry Flushing Mash Kasco Mills Waverly, N. Y.	G. 17.00 F. 18.65	4.00 4.97	55.00 57.12	.... 9.52	.... 9.74	5.50 4.29	Wheat red dog flour, oat meal, wheat middlings, wheat bran, mill run screenings, corn meal, meat scraps, fish meal, bone meal, linseed meal, milk sugar feed, salt, calcite, cod liver oil, alfalfa leaf meal.
Larro Chick Starter Larrowe Milling Co. Detroit, Mich.	G. 16.50 F. 18.43	4.50 4.64	55.50 57.71	.... 9.38	.... 9.84	5.50 4.56	Corn meal, oat groats, wheat middlings, wheat bran, meat scraps, buttermilk, skimmed milk, alfalfa meal, limestone, salt, cod liver oil.
Larro Egg Mash Larrowe Milling Co. Detroit, Mich.	G. 19.00 F. 20.93	4.00 4.75	52.50 52.85	.... 11.48	.... 9.99	7.50 6.54	Wheat bran, wheat middlings, corn meal, meat scraps, barley, soybean oil meal, oats, alfalfa meal, skimmed milk, buttermilk, limestone, salt, cod liver oil.
Larro Growing Mash Larrowe Milling Co. Detroit, Mich.	G. 16.00 F. 17.73	4.00 4.81	57.50 58.18	.... 9.21	.... 10.07	7.50 6.05	Corn meal, wheat middlings, wheat bran, meat scraps, alfalfa meal, oats, buttermilk, skimmed milk, soybean oil meal, limestone, salt, cod liver oil.
Bull Brand B-B Breeders' Laying Mash Maritime Milling Co. Buffalo, N. Y.	G. 20.00 F. 21.01	4.50 5.97	50.00 53.34	.... 10.19	.... 9.49	7.00 6.25	Cod liver oil, milk sugar feed, buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn meal, oat meal, meat meal, fish meal, bone meal, calcium carbonate, salt.
B-B Bull Brand Control Mash Maritime Milling Co. Buffalo, N. Y.	G. 14.00 F. 16.46	2.50 4.56	70.00 63.01	.... 8.32	.... 7.65	4.00 3.89	Cod liver oil, milk sugar feed, buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, corn meal, oat meal, soybean oil meal, meat meal, fish meal, bone meal, calcium carbonate, salt.

B-B Bull Brand Growing Mash	G.	16.00	4.50	55.00	....	....	7.00	Cod liver oil, milk sugar feed, buttermilk, alfalfa leaf meal, wheat bran, wheat middlings, corn meal, oat meal, soybean oil meal, meat meal, fish meal, bone meal, calcium carbonate, salt.
Maritime Milling Co.	F.	16.77	5.45	60.61	7.08	10.09	6.02	
Buffalo, N. Y.								
Bull Brand B-B Laying Mash	G.	20.00	4.50	50.00	....	....	7.00	Cod liver oil, milk sugar feed, buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn meal, barley, oat meal, meat meal, fish meal, bone meal, calcium carbonate, salt.
Maritime Milling Co.	F.	21.10	5.50	51.01	11.90	10.49	6.74	
Buffalo, N. Y.								
Dollar Maker Egg Mash	G.	17.00	3.50	50.00	....	....	9.00	Cod liver oil, buttermilk, alfalfa meal, wheat bran, wheat middlings, mill run screenings, soybean oil meal, corn meal, barley, oats, meat meal, bone meal, calcium carbonate, salt.
Maritime Milling Co.	F.	18.12	6.11	56.58	9.42	9.77	7.33	
Buffalo, N. Y.								
Merrimack Growing Mash	G.	17.00	4.25	50.00	....	....	5.00	Corn meal, wheat bran, wheat red dog flour, wheat middlings, oats, alfalfa leaf meal, milk, fish meal, meat scraps, bone meal, calcium carbonate, salt.
Merrimack Farmers' Exchange	F.	18.61	5.88	54.84	10.20	10.47	5.46	
Concord, N. H.								
Merrimack Laying Mash	G.	18.00	4.25	50.00	....	....	5.00	Soybean oil meal, corn meal, wheat bran, wheat middlings, oats, alfalfa leaf meal, fish meal; milk, meat scraps, bone meal, calcium carbonate, salt.
Merrimack Farmers' Exchange	F.	18.96	4.87	56.35	9.55	10.27	5.00	
Concord, N. H.								
Merrimack Special Mash	G.	18.00	5.00	50.00	....	....	8.00	Soybean oil meal, wheat middlings, corn meal, alfalfa leaf meal, wheat bran, oats, meat scraps, fish meal, calcium carbonate, oil.
Merrimack Farmers' Exchange	F.	21.36	5.15	53.07	10.23	10.19	5.95	
Concord, N. H.								
Merrimack Super Mash	G.	18.00	5.00	50.00	....	....	5.00	Corn meal, oat groats, wheat middlings, wheat bran, alfalfa leaf meal, meat scraps, fish meal, milk, bone meal, salt, calcium carbonate.
Merrimack Farmers' Exchange	F.	19.79	5.33	55.52	8.37	10.99	4.08	
Concord, N. H.								
Lay or Bust Dry Mash	G.	18.00	3.00	50.00	....	....	7.00	Buttermilk, cod liver oil, alfalfa leaf meal, corn gluten meal, fish meal, meat scraps, linseed meal, soybean meal, wheat bran, wheat middlings, calcium carbonate, salt.
Park & Pollard Co.	F.	18.82	6.50	52.84	11.65	10.19	6.02	
Boston, Mass.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Manamar Complete Life Cycle Mash Park & Pollard Co. Boston, Mass.	G. 16.00 F. 17.42	3.50 4.51	55.00 58.44	.... 9.73	.... 9.90	6.00 7.21	Kelp, fish meal, meat scraps, wheat bran, wheat middlings, alfalfa leaf meal, corn, oats, cod liver oil.
Manamar Growing Feed Park & Pollard Co. Boston, Mass.	G. 15.00 F. 16.02	3.50 4.93	55.00 59.96	.... 9.18	.... 9.91	6.00 5.47	Kelp, fish meal, sea shells, meat scraps, alfalfa meal, wheat bran, wheat middlings, corn meal, oats.
Manamar Lay or Bust Mash Park & Pollard Co. Boston, Mass.	G. 18.00 F. 17.56	3.50 5.39	55.00 56.00	.... 10.64	.... 10.41	6.00 7.65	Kelp, fish meal, sea shells, buttermilk, meat scraps, alfalfa meal, wheat bran, wheat middlings, corn meal, oats, cod liver oil.
Quaker Ful-O-Pep Broiler Mash Quaker Oats Co. Chicago, Ill.	G. 19.00 F. 19.66	5.00 7.42	54.00 58.52	.... 6.85	.... 7.55	7.00 5.97	Oat meal, hominy feed, wheat bran, wheat middlings, fish meal, cod liver meal, meat scraps, sardine oil, skimmed milk, buttermilk, molasses, alfalfa meal, salt.
Quaker Ful-O-Pep Chick Starter Quaker Oats Co. Chicago, Ill.	G. 17.00 F. 18.12	5.00 6.36	57.00 62.05	.... 5.31	.... 8.16	7.00 5.82	Oat meal, hominy feed, wheat bran, wheat middlings, fish meal, cod liver meal, meat scraps, sardine oil, skimmed milk, buttermilk, molasses, alfalfa meal, salt.
Quaker Ful-O-Pep Egg Mash Quaker Oats Co. Chicago, Ill.	G. 20.00 F. 21.10	4.50 7.22	53.00 54.77	.... 8.57	.... 8.34	8.00 6.55	Oat meal, hominy feed, wheat bran, wheat middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, skimmed milk, buttermilk, molasses, alfalfa meal, salt.
Quaker Ful-O-Pep Growing Mash Quaker Oats Co. Chicago, Ill.	G. 19.00 F. 20.05	5.00 6.71	53.00 57.94	.... 6.95	.... 8.35	6.00 5.72	Oat meal, hominy feed, wheat bran, wheat middlings, barley meal, fish meal, cod liver meal, meat scraps, sardine oil, skimmed milk, buttermilk, molasses, alfalfa meal, salt.
Purina Broiler Chow Ralston Purina Co. St. Louis, Mo.	G. 18.00 F. 20.36	4.00 5.66	53.00 55.73	.... 8.01	.... 10.24	7.00 4.61	Buttermilk, cod liver oil, sardine oil, meat scraps, fish meal, alfalfa leaf meal, corn meal, oats, wheat bran, wheat middlings, alfalfa meal, calcium carbonate, iodized salt.

Purina Chick Growena	G.	15.00	3.50	57.00	....	....	7.00	Buttermilk, cod liver oil, sardine oil, meat scraps, fish meal, soybean oil meal, alfalfa meal, corn meal, beet pulp, wheat middlings, wheat bran, calcium carbonate, iodized salt.
Ralston Purina Co.	F.	16.94	5.52	60.13	6.37	11.04	5.73	
St. Louis, Mo.								
Purina Chick Startena	G.	18.00	4.00	53.00	....	....	7.00	Buttermilk, cod liver oil, sardine oil, meat scraps, fish meal, soybean oil meal, alfalfa leaf meal, linseed meal, corn germ meal, oat middlings, corn meal, wheat bran, wheat middlings, calcium carbonate, iodized salt.
Ralston Purina Co.	F.	20.75	5.61	55.31	7.36	10.97	4.79	
St. Louis, Mo.								
Purina Egg Chowder	G.	19.00	3.50	52.00	....	....	8.00	Buttermilk, cod liver oil, sardine oil, meat scraps, soybean oil meal, linseed meal, alfalfa meal, corn germ meal, wheat middlings, wheat bran, corn meal, iodized salt, calcium carbonate.
Ralston Purina Co.	F.	21.19	6.26	52.71	10.88	8.96	7.52	
St. Louis, Mo.								
Purina Growing Chow	G.	17.00	3.50	55.00	....	....	7.00	Buttermilk, meat scraps, fish meal, soybean oil meal, wheat germ meal, corn germ meal, wheat middlings, wheat bran, alfalfa meal, corn meal, calcium carbonate, iodized salt.
Ralston Purina Co.	F.	19.52	5.58	55.70	9.56	9.64	5.88	
St. Louis, Mo.								
Purina Lay Chow with Cod Liver Oil	G.	19.00	3.50	52.00	....	....	8.00	Cod liver oil, sardine oil, meat scraps, soybean oil meal, linseed meal, alfalfa meal, corn germ meal, wheat middlings, wheat bran, corn meal, molasses, iodized salt, calcium carbonate.
Ralston Purina Co.	F.	20.79	5.50	52.52	11.80	9.39	6.04	
St. Louis, Mo.								
Purina Lay Chow with Cod Liver Oil and Dried Buttermilk	G.	19.00	3.50	52.00	....	....	8.00	Cod liver oil, buttermilk, sardine oil, meat scraps, soybean oil meal, linseed meal, alfalfa meal, corn germ meal, wheat middlings, wheat bran, corn meal, molasses, iodized salt, calcium carbonate.
Ralston Purina Co.	F.	20.18	5.70	53.18	11.60	9.34	6.16	
St. Louis, Mo.								
Purina Layena Checkers—Complete	G.	15.50	3.50	55.00	....	....	8.00	Buttermilk, cod liver oil, sardine oil, meat scraps, soybean oil meal, alfalfa meal, wheat middlings, wheat bran, beet pulp, corn meal, iodized salt, calcium carbonate.
Ralston Purina Co.	F.	17.34	5.07	57.13	10.55	9.91	4.53	
St. Louis, Mo.								
Purina Layena Mash—Complete	G.	15.50	3.50	55.00	....	....	8.00	Buttermilk, cod liver oil, sardine oil, meat scraps, soybean oil meal, alfalfa meal, wheat middlings, wheat bran, beet pulp, corn meal, iodized salt, calcium carbonate.
Ralston Purina Co.	F.	17.16	5.11	57.27	10.20	10.26	4.88	
St. Louis, Mo.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Hymie's Producer Mash South End Cash Market Manchester, N. H.	G. 17.00 F. 18.91	4.00 5.38	53.00 55.74	.... 9.98	.... 9.99	6.50 5.36	Corn meal, fish meal, wheat flour middlings, alfalfa leaf meal, cod liver oil, wheat bran, oats, meat scraps, skimmed milk, oyster shell meal, dicalcium phosphate, salt.
Just Right Egg Mash South End Cash Market Manchester, N. H.	G. 18.00 F. 19.79	5.00 5.19	63.00 56.94	.... 7.93	.... 10.15	8.00 7.09	Wheat middlings, wheat bran, corn meal, corn gluten feed, oats, meat scraps, fish meal, charcoal, calcium carbonate, alfalfa meal, milk, milk sugar, wheat red dog flour, dicalcium phosphate, iodized salt, cod liver oil.
Wirthmore Baby Chick Starter St. Albans Grain Co. St. Albans, Vt.	G. 18.00 F. 19.26	4.00 4.53	58.00 57.83	.... 7.83	.... 10.55	5.00 4.57	Cod liver oil, skimmed milk, milk sugar feed, alfalfa leaf meal, meat scraps, corn gluten meal, soybean oil meal, linseed meal, wheat bran, wheat middlings, oats, corn meal, calcium carbonate, salt, fish meal.
Wirthmore Complete Chick and Broiler Ration St. Albans Grain Co. St. Albans, Vt.	G. 17.50 F. 20.44	4.00 4.67	58.00 56.13	.... 8.06	.... 10.70	5.50 5.00	Cod liver oil, corn meal, wheat bran, wheat middlings, oat groats, meat scraps, fish meal, alfalfa leaf meal, linseed meal, soybean oil meal, corn gluten meal, skimmed milk, milk sugar feed, calcium carbonate, salt.
Wirthmore Complete Growing Ration St. Albans Grain Co. St. Albans, Vt.	G. 14.00 F. 15.33	3.75 4.13	65.00 62.76	.... 6.59	.... 11.19	6.00 4.18	Cod liver oil, skimmed milk, milk sugar feed, meat scraps, fish meal, corn meal, oats, barley, wheat bran, wheat middlings, alfalfa leaf meal, calcium carbonate, salt, wheat meal.
Wirthmore Complete Laying Ration St. Albans Grain Co. St. Albans, Vt.	G. 15.00 F. 15.89	4.00 4.29	60.00 60.62	.... 7.92	.... 11.28	5.00 3.44	Cod liver oil, skimmed milk, milk sugar feed, meat scraps, fish meal, corn meal, oats, alfalfa leaf meal, wheat bran, wheat middlings, calcium carbonate, salt, oat groats, wheat meal.

Wirthmore Growing Mash with Cod Liver Oil St. Albans Grain Co. St. Albans, Vt.	G. F.	15.00 17.51	4.50 4.69	55.00 59.49	.... 7.39	.... 10.92	6.00 4.50	Cod liver oil, milk sugar feed, skimmed milk, meat scraps, fish meal, corn meal, alfalfa leaf meal, linseed meal, oats, barley, soybean oil meal, wheat bran, wheat middlings, wheat red dog, calcium carbonate, salt, wheat meal.
Wirthmore Laying Mash St. Albans Grain Co. St. Albans, Vt.	G. F.	20.00 20.44	4.00 4.42	50.00 55.88	.... 8.88	.... 10.38	7.00 5.22	Skimmed milk, milk sugar feed, meat scraps, fish meal, corn meal, alfalfa leaf meal, linseed meal, soybean oil meal, corn gluten feed, wheat bran, wheat middlings, oats, barley, buckwheat, calcium carbonate, salt.
Wirthmore Laying Mash with Cod Liver Oil St. Albans Grain Co. St. Albans, Vt.	G. F.	20.00 20.35	4.00 4.68	50.00 54.74	.... 9.73	.... 10.50	7.00 4.47	Cod liver oil, milk sugar feed, skimmed milk, meat scraps, fish meal, corn meal, alfalfa leaf meal, linseed meal, soybean oil meal, wheat bran, wheat middlings, corn gluten feed, oats, barley, buckwheat, calcium carbonate, salt.
Strafford County Mash Strafford County Grain Mill Rochester, N. H.	G. F.	17.00 23.29	5.00 5.61	57.00 50.40	.... 11.56	.... 9.14	10.00 5.13	Wheat bran, wheat middlings, oats, corn meal, corn gluten feed, meat scraps, hominy, cod liver oil, molasses, milk, fish scraps.
Unity Laying Mash Unity Feeds Boston, Mass.	G. F.	18.00 19.92	3.00 7.08	55.00 53.09	.... 10.23	.... 9.68	7.00 7.35	Buttermilk, cod liver oil, alfalfa leaf meal, soybean meal, fish meal, meat scraps, linseed meal, corn gluten meal, wheat bran, wheat middlings, oats, corn meal, calcium carbonate, salt.
Complete Growing Ration V. W. O. Co. Lowell, Mass.	G. F.	13.00 13.92	6.00 5.58	66.00 61.23	.... 9.93	.... 9.34	6.00 3.58	Wheat middlings, wheat bran, oats, corn feed meal, corn gluten feed, meat scraps, buttermilk, alfalfa leaf meal, corn, wheat, milo maize, kaffir corn, oat groats, bone meal, calcium carbonate, salt, mineral oil, peanut oil.
Eventually Gold Medal Egg Mash Washburn Crosby Co. Minneapolis, Minn.	G. F.	19.00 20.31	5.00 5.21	53.00 53.46	.... 11.82	.... 9.20	8.00 6.11	Wheat bran, wheat middlings, corn meal, oats, alfalfa meal, meat scraps, skimmed milk, buttermilk, limestone, salt, cod liver oil.
Blue Seal College Mash H. K. Webster Co. Lawrence, Mass.	G. F.	17.00 18.47	4.50 5.62	55.00 55.22	.... 10.50	.... 10.19	6.00 5.98	Corn meal, wheat bran, wheat flour middlings, oats, meat scraps, cod fish meal, alfalfa leaf meal, skimmed milk, calcium carbonate, salt, cod liver oil.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Blue Seal Egg Mash H. K. Webster Co. Lawrence, Mass.	G. 19.00 F. 20.18	4.50 5.14	54.00 53.29	.... 10.51	.... 10.88	6.00 5.58	Corn meal, oats, wheat bran, wheat middlings, meat scraps, skimmed milk, alfalfa leaf meal, cane molasses, corn gluten meal, calcium carbonate, salt, cod liver oil.
Blue Seal Growing Mash H. K. Webster Co. Lawrence, Mass.	G. 17.00 F. 18.04	4.00 4.55	55.00 57.38	.... 9.93	.... 10.10	6.50 6.11	Skimmed milk, buttermilk, meat scraps, fish meal, alfalfa leaf meal, corn gluten meal, corn meal, wheat bran, wheat flour middlings, oats, barley, cane molasses, calcium carbonate, salt, cod liver oil.
Blue Seal Improved All Mash Ration H. K. Webster Co. Lawrence, Mass.	G. 15.00 F. 15.59	4.50 4.80	55.00 60.91	.... 8.15	.... 10.55	4.00 4.11	Corn meal, oats, wheat bran, wheat flour middlings, meat scraps, cod fish meal, skimmed milk, alfalfa leaf meal, cane molasses, calcium carbonate, salt, cod liver oil.
Blue Seal Laying Mash H. K. Webster Co. Lawrence, Mass.	G. 20.00 F. 20.00	3.50 5.34	54.00 53.02	.... 11.12	.... 10.52	6.00 6.00	Corn meal, wheat bran, oats, meat scraps, corn gluten meal, wheat flour middlings, barley, wheat, cane molasses, alfalfa leaf meal, skimmed milk, buttermilk, cod fish meal, salt, calcium carbonate, cod liver oil.
Whiting All Mash Growing David Whiting & Sons Wilton, N. H.	G. 15.00 F. 16.11	4.00 5.12	60.00 61.60	.... 7.51	.... 9.66	5.00 5.47	Corn meal, wheat bran, wheat red dog flour, oat meal, alfalfa leaf meal, skimmed milk, meat scraps, fish meal, calcium carbonate, salt, cod liver oil.
Whiting All Mash Laying David Whiting & Sons Wilton, N. H.	G. 15.00 F. 16.72	4.00 4.50	60.00 61.09	.... 7.60	.... 10.09	5.00 5.12	Corn meal, wheat bran, wheat red dog flour, oat meal, alfalfa leaf meal, skimmed milk, meat scraps, fish meal, calcium carbonate, salt.
Whiting Laying Mash David Whiting & Sons Wilton, N. H.	G. 17.00 F. 19.13	4.00 4.88	55.00 56.32	.... 9.83	.... 9.84	5.00 6.29	Corn meal, wheat bran, wheat flour middlings, oats, meat scraps, milk, fish meal, alfalfa leaf meal, calcium carbonate, salt.

Whiting Special Mash	G.	18.00	4.00	50.00	....	....	5.00	Wheat bran, corn meal, corn gluten feed, beef scraps, wheat middlings, alfalfa leaf meal, oat meal, calcium carbonate, salt, milk, cod liver oil.
David Whiting & Sons	F.	21.14	5.34	54.01	10.30	9.21	7.30	
Wilton, N. H.								
Wood's Mash Growing—Laying	G.	17.00	4.00	55.00	....	....	5.00	Corn meal, wheat bran, wheat middlings, oats, meat scraps, fish meal, alfalfa leaf meal, buttermilk, calcium carbonate, salt, cod liver oil.
H. D. Woods Co.	F.	18.74	5.85	55.04	10.49	9.88	6.30	
Derry, N. H.								
SKIMMED MILK								
Buell-Boston Dried Skim Milk	G.	31.00	0.20	46.00	....	....	....	
C. E. Buell, Inc.	F.	34.06	0.69	53.83	8.35	3.07	....	
Boston, Mass.								
Dairylea Dried Skim Milk	G.	33.00	0.50	....	....	....	....	
Dairymen's League Co-operative Association	F.	33.54	0.73	52.47	8.39	4.87	....	
Utica, N. Y.								
Green Valley Brand Powdered Skim Milk	G.	32.00	0.50	....	....	....	....	
Lansing Dairy Co.	F.	34.63	0.68	53.12	8.38	3.19	....	
Lansing, Mich.								
Trout Brook Skim Milk Powder	G.	32.00	0.25	....	....	....	....	
Trout Brook Creamery Co.	F.	33.97	0.61	52.49	8.02	4.88	....	
Concord, Vt.								
Ward's Pure Dried Skim Milk	G.	32.00	1.00	40.00	....	....	....	
Ward Dry Milk Co.	F.	33.80	1.06	51.78	8.23	5.13	....	
St. Paul, Minn.								
SOYBEAN OIL MEAL								
Soybean Oil Meal	G.	41.00	5.00	34.00	....	....	7.00	
Allied Mills	F.	41.68	6.26	36.54	6.16	9.36	....	
Chicago, Ill.								
Staley's Soybean Oil Meal	G.	41.00	4.50	36.00	....	....	7.00	
A. E. Staley Mfg. Co.	F.	42.64	4.67	36.59	5.85	10.25	....	
Decatur, Ill.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
STOCK FEED								
Empire Stock Feed	G.	9.00	4.00	64.00	....	....	11.00	Hominy feed, corn, oat mill feed, clipped oat by-products, grain screenings, cane molasses, salt, bone meal, limestone.
Allied Mills Chicago, Ill.	F.	10.24	4.37	66.37	9.29	9.73	8.92	
Pennant Brand Stock Feed	G.	9.50	4.00	70.00	....	....	9.50	Hominy feed, oat middlings, oat hulls, oat shorts, linseed meal, barley, salt, cane molasses.
E. W. Bailey & Co. Montpelier, Vt.	F.	10.15	4.89	71.34	4.78	8.84	9.50	
Barco Stock Feed	G.	9.50	4.50	70.00	....	....	9.50	Hominy feed, oat middlings, oat hulls, oat shorts, linseed meal, barley.
G. N. Bartemus Co. Concord, N. H.	F.	10.20	5.12	71.17	4.58	8.93	10.29	
Concord Stock Feed	G.	7.50	2.80	70.00	....	....	14.45	Hominy, oat middlings, oat shorts, oat hulls, salt.
G. N. Bartemus Co. Concord, N. H.	F.	8.27	4.52	73.70	5.11	8.40	14.75	
Coweco Stock Feed	G.	9.00	4.00	45.00	....	....	11.00	Hominy feed, corn meal, oat feed, barley feed, calcium carbonate, salt.
E. A. Cowee Co. Fitchburg, Mass.	F.	10.15	5.39	68.69	6.14	9.63	11.18	
Eastern States Horse and Calf Ration	G.	10.50	3.50	62.00	....	....	7.00	Corn, oats, wheat bran, mill run wheat screenings, cane molasses, linseed meal, dicalcium phosphate, salt.
Eastern States Farmers' Exchange Springfield, Mass.	F.	12.03	3.60	67.77	5.01	11.59	5.86	
North Star Stock Feed	G.	9.00	3.00	50.00	....	....	12.00	Hominy feed, corn meal, barley, oat feed, wheat red dog flour, grain screenings, salt.
Farm Service Stores Fitchburg, Mass.	F.	10.16	3.65	72.34	4.49	9.36	12.54	
Grandin's Stock Food	G.	8.50	4.00	55.00	....	....	12.00	Corn feed meal, hominy feed, wheat middlings, mill run screenings, barley, oat middlings, oat hulls, oat shorts, salt.
D. H. Grandin Milling Co. Jamestown, N. Y.	F.	10.24	4.54	71.67	4.38	9.17	10.54	

H & H Sugared Stock Feed Hales & Hunter Co. Chicago, Ill.	G. F.	10.00 13.36	3.25 3.89	58.00 66.06	.... 7.04	.... 9.65	12.00 9.90	Corn meal, hominy feed, corn feed meal, cottonseed meal, linseed meal, low grade wheat flour, wheat middlings, oat middlings, oat shorts, oat hulls, molasses, salt.
Granite State Stock Feed E. C. & W. L. Hopkins Greenfield, N. H.	G. F.	9.00 10.33	5.00 4.31	60.00 71.73	.... 4.37	.... 9.26	10.00 9.11	Hominy feed, wheat red dog flour, oat middlings, oat hulls, oat shorts, salt.
B-B Bull Brand Stock Feed Maritime Milling Co. Buffalo, N. Y.	G. F.	9.00 10.72	3.50 5.17	60.00 71.35	.... 4.52	.... 8.24	12.00 9.75	Hominy feed, corn feed meal, wheat bran, mill run screenings, oat hulls, oat shorts, salt.
Merrimack Stock Feed Merrimack Farmers' Exchange Concord, N. H.	G. F.	9.00 10.20	4.00 4.71	60.00 68.72	.... 6.39	.... 9.98	11.00 10.03	Molasses, soybean oil meal, hominy feed, oat feed, salt, calcium carbonate, linseed meal.
Park & Pollard Stock Feed Park & Pollard Co. Boston, Mass.	G. F.	8.50 10.02	4.00 4.74	50.00 69.37	.... 6.72	.... 9.15	12.00 9.27	Barley, corn, oats, hominy feed, oat hulls, oat middlings, oat shorts, calcium carbonate, salt.
Quaker Sugared Schumacher Feed Quaker Oats Co. Chicago, Ill.	G. F.	10.00 11.07	3.00 4.15	67.00 69.93	.... 6.57	.... 7.98	12.00 10.28	Corn meal, hominy feed, barley meal, cottonseed meal, linseed meal, low grade wheat flour, wheat middlings, oat mill feed, salt, limestone, bone meal, molasses.
Wirthmore Stock Feed St. Albans Grain Co. St. Albans, Vt.	G. F.	9.00 10.46	4.00 5.03	70.00 69.14	.... 5.94	.... 9.43	9.50 8.16	Barley, oats, hominy feed, corn, oat middlings, oat shorts, oat hulls, cane molasses, bone meal, calcium carbonate, salt.
Stratton & Co.'s No. 24 Stock Feed Stratton & Co. Concord, N. H.	G. F.	7.50 9.11	2.83 4.93	66.00 73.15	.... 2.93	.... 9.88	14.43 11.53	Oat mill feed, corn bran, cracked corn siftings, corn meal.
Blue Seal Stock Feed H. K. Webster Co. Lawrence, Mass.	G. F.	8.50 11.25	3.50 4.56	65.00 60.98	.... 6.12	.... 8.09	11.00 13.39	Hominy feed, barley, wheat red dog flour, oat feed, calcium carbonate, salt.
WHEAT BRAN								
Bran S. J. Cherry & Sons Preston, Canada	G. F.	15.00 16.29	3.50 5.35	51.80 61.76	.... 5.54	.... 11.06	11.50	

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Sunfed Wheat Bran	G. 14.00	4.00	62.00	....	....	12.00	Mill run screenings.
Commander-Larabee Corp.	F. 17.12	4.93	61.59	5.93	10.43	....	
Minneapolis, Minn.							
Copeland's Dandy Bran	G. 15.00	3.50	51.00	....	....	11.50	
Copeland Flour Mills	F. 17.34	5.23	60.72	5.54	11.17	....	
Midland, Canada							
Dairy Maid Bran	G. 12.50	2.50	57.00	....	....	13.00	Mill run wheat screenings.
Federal Mill	F. 16.24	3.50	63.19	6.18	10.89	....	
Lockport, N. Y.							
Lucky Bran	G. 14.00	3.00	60.00	....	....	14.00	Mill run wheat screenings.
Federal Mill	F. 18.34	4.94	59.07	6.12	11.23	....	
Lockport, N. Y.							
Alpine Canadian Pure Bran	G. 13.50	3.50	51.00	....	....	11.50	
J. A. Forrest	F. 17.78	5.66	60.40	5.91	10.25	....	
Minneapolis, Minn.							
Hamco Wheat Bran	G. 15.00	3.50	51.00	....	....	11.50	
Frank B. Ham & Co.	F. 16.24	4.65	61.15	5.25	12.71	....	
Toronto, Canada							
Blackhawk Pure Wheat Bran	G. 15.00	3.20	62.00	....	....	12.00	
International Milling Co.	F. 16.20	4.41	62.73	6.15	10.51	....	
Minneapolis, Minn.							
Lakewoods Wheat Bran	G. 15.00	3.50	53.00	....	....	11.50	
Lake of the Woods Milling Co.	F. 16.11	5.40	61.25	5.85	11.39	....	
Montreal, Canada							
Rex Wheat Bran	G. 15.00	3.50	50.00	....	....	12.00	Mill run screenings.
Maple Leaf Milling Co.	F. 15.41	4.97	63.37	5.47	10.78	....	
Toronto, Canada							

Big B Wheat Bran	G.	13.50	3.00	50.00	....	....	13.00	
Moseley & Motley Milling Co.	F.	17.64	5.52	59.34	5.96	11.54	....	
Rochester, N. Y.								
Niagara Choice Wheat Bran	G.	15.50	4.00	....	....	....	11.00	
Niagara Falls Milling Co.	F.	17.69	4.62	60.52	6.76	10.41	....	
Lockport, N. Y.								
Pure Wheat Bran	G.	14.00	4.00	62.00	....	....	12.00	
Northwestern Consolidated Milling Co.	F.	17.25	4.72	59.92	6.26	11.85	....	
Minneapolis, Minn.								
Ogilvie's Wheat Bran	G.	15.00	3.50	50.00	....	....	11.50	
Ogilvie Flour Mills Co.	F.	16.77	5.30	61.32	5.41	11.17	....	
Montreal, Canada								
Parrheim Wheat Bran	G.	15.00	3.50	51.00	....	....	11.50	
Parrish & Heimbecker	F.	16.62	5.46	61.41	5.36	11.15	....	
Toronto, Canada								
Pillsbury's Hard Wheat Bran	G.	14.00	1.00	63.00	....	....	12.00	Wheat bran, mill run wheat screenings.
Pillsbury Flour Mills	F.	17.60	5.14	60.84	5.90	10.52	....	
Minneapolis, Minn.								
Bell Cow Wheat Bran	G.	15.00	3.50	67.00	....	....	10.00	Wheat bran, mill run screenings.
Quaker Oats Co.	F.	18.17	5.64	59.47	5.67	11.05	....	
Peterborough, Ont.								
Superior Wheat Bran	G.	15.00	3.50	59.50	....	....	11.50	
Robin Hood Mills	F.	17.25	5.04	61.28	5.06	11.37	....	
Moose Jaw, Canada								
Occident Bran	G.	14.00	4.00	61.50	....	....	11.50	
Russell-Miller Milling Co.	F.	19.48	5.19	57.81	5.60	11.92	....	
Minneapolis, Minn.								
Premier Bran	G.	15.00	3.50	59.50	....	....	11.50	
St. Lawrence Flour Mills Co.	F.	17.47	5.64	60.33	5.54	11.02	....	
Montreal, Canada								
Stratton & Co.'s Fancy Wheat Bran	G.	14.00	4.00	64.00	....	....	11.00	
Stratton & Co.	F.	15.45	4.00	63.24	5.26	12.05	....	
Concord, N. H.								

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
Wheat Bran	G. 14.00	3.50	49.00	....	....	12.00	Wheat bran, mill run screenings.
George Urban Milling Co. Buffalo, N. Y.	F. 17.64	5.01	60.53	5.96	10.86	....	
Washburn's Gold Medal Hard Wheat Bran	G. 14.00	4.00	63.00	....	....	12.00	Wheat bran, mill run screenings.
Washburn Crosby Co. Minneapolis, Minn.	F. 18.39	4.31	59.16	6.14	12.00	....	
Wolmac's Pure Wheat Bran	G. 15.00	3.50	51.00	....	....	11.50	
Wolverton Flour Mills Co. St. Mary's, Ontario	F. 17.25	4.73	61.68	4.96	11.38	....	
WHEAT MIDDLINGS							
Sunfed Wheat Standard Middlings	G. 14.50	4.00	62.00	....	....	9.50	Mill run screenings.
Commander-Larabee Corp. Minneapolis, Minn.	F. 17.99	4.89	60.86	4.79	11.47	....	
Dairy Maid Flour Middlings	G. 13.00	4.50	58.00	....	....	6.00	Wheat, mill run wheat screenings.
Federal Mill Lockport, N. Y.	F. 17.86	4.30	63.56	3.54	10.74	5.96	
Lucky Standard Middlings	G. 15.00	4.50	56.00	....	....	9.50	Mill run wheat screenings.
Federal Mill Lockport, N. Y.	F. 18.08	4.50	62.54	3.84	11.04	....	
Wheat Standard Middlings	G. 15.00	4.75	51.00	....	....	9.50	Mill run screenings.
Hecker-Jones-Jewell Milling Co. Buffalo, N. Y.	F. 19.35	5.67	59.98	4.49	10.51	....	
Blackhawk Wheat Standard Middlings	G. 16.00	4.50	60.50	....	....	8.50	Mill run screenings.
International Milling Co. Minneapolis, Minn.	F. 19.53	5.24	59.73	4.27	11.23	....	

Rex Wheat Middlings Maple Leaf Milling Co. Toronto, Canada	G. F.	16.00 17.60	5.00 5.67	53.00 60.51	.... 4.41	.... 11.81	7.50	Mill run screenings.
Niagara Standard Wheat Middlings Niagara Falls Milling Co. Lockport, N. Y.	G. F.	15.50 19.96	4.50 4.80	.... 60.21	.... 4.04	.... 10.99	7.00	Mill run screenings.
Wheat Flour Middlings Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	15.00 18.30	4.00 5.18	62.00 61.02	.... 4.40	.... 11.10	6.00	Wheat flour middlings, wheat screenings.
Wheat Standard Middlings Northwestern Consolidated Milling Co. Minneapolis, Minn.	G. F.	15.00 17.07	4.00 5.14	62.50 62.59	.... 5.16	.... 10.04	9.50	Wheat standard middlings, wheat screenings.
Pillsbury's Standard B Middlings Pillsbury Flour Mills Co. Minneapolis, Minn.	G. F.	15.00 17.69	4.00 5.04	62.50 61.38	.... 4.61	.... 11.28	9.50	Wheat middlings, mill run wheat screenings.
Pennant Wheat Middlings David Stott Flour Mills Detroit, Mich.	G. F.	15.00 18.39	4.00 4.05	63.70 62.40	.... 4.24	.... 10.92	9.00	Wheat middlings, mill run screenings.
Stratton & Co.'s Fancy Fine White Wheat Middlings Stratton & Co. Concord, N. H.	G. F.	14.00 15.85	4.25 4.14	66.00 65.36	.... 3.01	.... 11.64	6.50	
Stratton & Co.'s Standard Wheat Middlings Stratton & Co. Concord, N. H.	G. F.	16.00 16.77	5.63 **5.02**	55.00 61.95	.... 4.37	.... 11.89	9.50	Mill run screenings.
Washburn's Gold Medal Hard Wheat Flour Middlings Washburn Crosby Co. Minneapolis, Minn.	G. F.	16.00 18.65	4.00 4.03	62.00 62.38	.... 3.44	.... 11.50	6.00	Wheat flour middlings, mill run screenings.
Washburn's Gold Medal Hard Wheat Standard Middlings Washburn Crosby Co. Minneapolis, Minn.	G. F.	15.00 17.20	4.00 4.28	62.50 62.74	.... 4.24	.... 11.54	9.50	Wheat middlings, mill run screenings.

Brand and Manufacturer	Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
	Protein	Fat	Carbo-hydrates	Ash	Moisture	Crude Fiber	
WHEAT MIXED FEED							
Barco Mixed Feed	G. 14.00	3.00	60.00	....	....	7.00	Wheat bran, second clear wheat flour.
G. N. Bartemus Co.	F. 15.81	3.64	65.00	3.69	11.86	....	
Concord, N. H.							
Sunfed Wheat Mixed Feed	G. 15.00	4.00	62.50	....	....	8.50	Mill run screenings.
Commander Larabee Corp.	F. 18.17	5.12	60.20	4.48	12.03	....	
Minneapolis, Minn.							
Elmore Xtragood Wheat Feed	G. 15.00	3.00	....	....	....	8.00	Wheat bran, wheat flour, mill run screenings.
Elmore Milling Co.	F. 17.34	4.91	62.86	5.29	9.60	....	
Oneonta, N. Y.							
Pure Camel Fancy Wheat Feed	G. 16.00	4.00	....	....	....	7.50	Wheat low grade flour, wheat red dog flour, wheat middlings, wheat bran.
Excelsior Milling Co.	F. 16.02	3.62	64.66	5.40	10.30	7.43	
Minneapolis, Minn.							
Dairy Maid Mixed Feed	G. 12.50	3.50	57.00	....	....	10.00	Wheat bran, wheat middlings, mill run wheat screenings.
Federal Mill	F. 19.00	3.84	62.37	4.78	10.01	....	
Lockport, N. Y.							
Granite State Mixed Feed	G. 15.00	4.00	55.00	....	....	8.50	Wheat bran, wheat red dog flour, mill run screenings.
E. C. & W. L. Hopkins	F. 17.60	4.96	61.77	4.69	10.98	....	
Greenfield, N. H.							
B-B Bull Brand Heavy Mixed Feed	G. 15.00	4.00	....	....	....	8.00	Wheat bran, wheat middlings, red dog flour, mill run screenings.
Maritime Milling Co.	F. 18.25	5.11	61.02	4.99	10.63	....	
Buffalo, N. Y.							
Merrimack Heavy Wheat Feed	G. 15.00	4.00	55.00	....	....	9.00	Wheat bran, mill run screenings, wheat middlings.
Merrimack Farmers' Exchange	F. 17.29	4.40	62.71	4.55	11.05	....	
Concord, N. H.							

Planet Feed	G.	15.00	4.00	63.00	....	....	8.00	Wheat bran, red dog wheat flour.
Northwestern Consolidated Milling Co.	F.	18.95	4.96	60.08	4.60	11.41	....	
Minneapolis, Minn.								
Pillsbury's Fancy Mixed Feed and Screenings	G.	15.00	4.00	63.50	....	....	8.50	Wheat red dog flour, wheat bran, mill run wheat screenings.
Pillsbury Flour Mills Co.	F.	18.30	4.56	61.96	4.52	10.66	....	
Minneapolis, Minn.								
Brooks' Fancy Wheat Mixed Feed	G.	15.00	4.00	63.00	....	....	8.00	Wheat bran, low grade flour.
Ralston Purina Co.	F.	17.82	4.12	62.36	4.77	10.93	....	
St. Johnsbury, Vt.								
Occident Mixed Feed	G.	15.00	4.50	61.50	....	....	9.50	Wheat bran, wheat middlings, wheat red dog flour.
Russell-Miller Milling Co.	F.	19.57	5.44	58.81	4.89	11.29	....	
Minneapolis, Minn.								
Wirthmore Wheat Feed	G.	15.00	3.75	50.00	....	....	8.00	Wheat bran, wheat red dog flour, mill run screenings.
St. Albans Grain Co.	F.	17.47	4.60	63.05	4.32	10.56	....	
St. Albans, Vt.								
Columbus Heavy Mixed Wheat Feed	G.	14.50	3.70	63.50	....	....	8.50	Wheat flour, wheat middlings, wheat bran, mill run wheat screenings.
David Stott Flour Mills	F.	17.86	3.81	62.57	3.96	11.80	....	
Detroit, Mich.								
Stratton & Co.'s Wheat Mixed Feed	G.	13.50	4.11	63.00	....	....	7.13	Mill run screenings.
Stratton & Co.	F.	16.24	4.48	62.57	5.71	11.00	....	
Concord, N. H.								
Rowena Mixed Feed	G.	14.50	3.75	65.00	....	....	9.00	Mill run screenings.
Valley City Milling Co.	G.	17.86	4.29	63.78	4.53	9.54	....	
Portland, Mich.								
Washburn's Gold Medal Fancy Mixed Feed	G.	15.00	3.50	65.50	....	....	7.50	Wheat bran, mill run screenings, low grade wheat flour.
Washburn Crosby Co.	F.	17.34	3.58	64.06	3.78	11.24	....	
Minneapolis, Minn.								
WHEAT RED DOG								
XXX Comet	G.	16.00	4.00	62.00	....	....	4.00	Red dog wheat flour.
Northwestern Consolidated Milling Co.	F.	19.96	4.88	60.39	2.94	11.83	....	
Minneapolis, Minn.								

Brand and Manufacturer		Pounds in 100 lbs. of Feeding Stuffs						Certified by Manufacturer to Contain
		Protein	Fat	Carbo-hydrates	Ash	Moist-ure	Crude Fiber	
Pillsbury's XX Daisy	G.	16.00	4.00	62.00	....	....	4.00	Wheat red dog flour.
Pillsbury Flour Mills Co. Minneapolis, Minn.	F.	19.26	4.83	61.11	2.59	12.21	....	
Superior Wheat Red Dog	G.	16.50	3.50	64.00	....	....	4.00	
Robin Hood Mills Moose Jaw, Canada	F.	18.04	4.79	61.94	2.66	12.57	....	
WHEAT SHORTS								
Shorts	G.	16.00	5.00	53.70	....	....	8.00	
S. J. Cherry & Sons Preston, Canada	F.	18.08	6.26	60.02	4.34	11.30	....	
Hamco Wheat Shorts	G.	16.00	5.00	52.00	....	....	8.00	
Frank B. Ham & Co. Toronto, Canada	F.	17.77	5.51	61.09	4.04	11.59	....	
Shorts	G.	16.00	5.00	52.00	....	....	8.00	Mill run screenings.
Lakeside Milling Co. Toronto, Canada	F.	17.73	5.48	61.77	3.92	11.10	....	
Parrheim Wheat Shorts	G.	16.00	5.00	52.00	....	....	8.00	
Parrish & Heimbecker Toronto, Canada	F.	18.69	6.21	58.72	4.06	12.32	....	

~~PAS~~
~~630.72~~
~~N532~~
~~no.285-305~~